



3M[™] Adhesives and Tapes for design, assembly and production.

Table of Contents

Adhesives and Tapes Overview	2
Considerations for Selecting 3M™ Adhesives and Tapes	3
Assembly Solutions4-1	5
Adhesives	
3M™ Scotch-Weld™ Structural Adhesives18-2	8
3M™ Scotch-Weld™ Instant Adhesives	31
3M™ Scotch-Weld™ Anaerobic Adhesives	3
3M™ Scotch-Weld™ EPX™ Applicators and Nozzles	5
3M™ Concrete Repair3	6
3M™ Scotch-Weld™ PUR Adhesive Systems	9
3M™ Hot Melt Spray Adhesives4	0
3M™ Hot Melt Adhesives, Applicators and Accessories	5
3M™ Solvent and Water Based Adhesives46-50, 54-5	7
3M™ Cleaners and Lubricants5	51
3M™ Cylinder Spray Adhesives52-5	3
3M™ Adhesive Sealants	9
Bonding Tapes	
3M™ VHB™ Tapes and Primers	9
3M™ Extreme Sealing Tapes70	0
3M™ Double Coated Foam Tapes71–7	2
3M™ Double Coated Tapes73–7	5
3M™ Removable/Repositionable Tapes79	6
3M™ Adhesive Transfer Tapes77-8	31
Scotch® ATG Transfer Tapes8	2
3M™ Extended Liner Tapes8	3
3M™ Industrial Attachment Tapes — X-Series8	4
Specialty Technologies	
3M™ Dual Lock™ Reclosable Fasteners	7
3M™ Hook and Loop Reclosable Fasteners88-8	9
3M™ Single Coated Foam Tapes9	0
3M™ Converter Markets Center9)1
Numerical Index92-9	4

Product Name Index......95–97







What can 3M™ Adhesives and Tapes do for your product and process?

Build strong, durable products:

 From repositionable to permanent, 3M has an adhesive or tape that can be readily matched to the substrate and stress characteristics needed in the joint.

Improve appearance and aesthetics:

- 3M adhesives and tapes are generally hidden between the bonded substrates, offering nearly invisible fastening.
- Surfaces stay smooth and clean for a more attractive appearance and less surface refinishing.

Lower production and material costs:

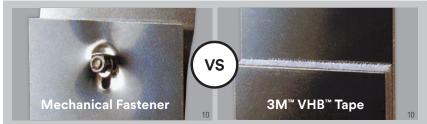
- Reduce process steps such as weld grinding and sealing individual penetrations from screws, nuts and bolts.
- Use thinner, lighter or less expensive materials that cannot be welded or fastened traditionally.
- Potentially lower capital investment.
 Many adhesives and tapes do not require major capital to use.
- Manage labor costs. Many tape and adhesive technologies require little operator training.

Build products with a continuous bond line:

- Adhesives and tapes uniformly distribute stress along the entire joint. Nuts, bolts and other fasteners concentrate stress at a point which can decrease physical properties of the substrates being assembled.
- Bond and seal simultaneously.
 Many 3M adhesives and tapes will provide a strong bond, but are also an effective seal against dirt, dust, water and other environmental conditions.
- Good fatigue resistance. If your parts are subject to vibration or other movement, the viscoelastic nature of 3M adhesives and tapes will impart flexibility to a joint or bonded area.

Wider material selection for assemblies:

- Lighter and thinner materials can be used. Welding and fastening weaken substrates and require a minimum thickness to retain integrity.
- Bond dissimilar materials. 3M adhesives and tapes bond to a wide range of substrates from metals, wood, glass, plastics and ceramics. This includes "hard to bond," low surface energy materials.
- Prevent galvanic corrosion. 3M adhesives and tapes can provide a film barrier to reduce or prevent bimetallic corrosion that can occur when joining to different types of metals.



With uniform stress distribution of adhesives and tapes, lighter, thinner materials can be used without concerns about distortion, splitting, or crazing at the mechanically fastened site. Elimination of holes in metal also reduces the chances for rust and corrosion.

3M™ Adhesives and Tapes Product Family





Considerations when selecting 3M™ Adhesives and Tapes for your product and process.



Assembly

What type of assembly is required? (Refer to 6 common assembly types in the right hand column.)

What are the overall performance needs of the assembly (flexibility, high peel strength, etc.)?



S

Substrate

What are the materials that are being bonded together? (Refer to the substrate selectors for each assembly type on pages 4–15.)

Consider the surface condition texture of each material.



Process

What is the current assembly and manufacturing process?

Does the solution need to fit into the current process/equipment or can the process/equipment change?

What are the various process steps and how quickly will the assembly be moved to each step?

At any time, might the assembly bond need to be repositioned? If so, why and when?

Are there any environmental, regulatory or workplace safety restrictions?



End-Use

How and where is the final product used?

Will the assembly be exposed to harsh environmental conditions (UV, chemicals, high humidity, very high or low temperatures, etc.)?





Cost

Where can improvements be made in the assembly process (labor, reduction of process steps, materials, workflow, etc.)?

Assembly Solutions are made up of these common applications:



Panel to Frame/ Stiffener to Panel pg 4



Small Joint Assembly pg 6



Large Surface Lamination pg 8



Mounting and Trim Attachment pg 10



Gasket Attachment pg 12



Sealing pg 14



Potting and Encapsulating pg 14

What are Panel to Frame Assemblies? What are Stiffener to Panel Assemblies?



Panels are used in multiple markets, such as transportation, metalworking and construction.

Panel to Frame: Decorative or load bearing panel that is applied to rigid frame or support. Examples include trailer panels, elevator walls and sign boxes.

Stiffener to Panel: Stiffeners are applied to panels to give extra support and rigidity. Examples include trailer wall panels, traffic signs and large metal enclosures.

Possible Adhesive or Tape Requirements:

- Dead load holding strength
- Flexibility for dynamic loads and thermal expansion mismatch
- Fill a gap or variation in fit from end to end
- Provide a water seal

Best 3M Solutions for Panel to Frame/Stiffener to Panel Assemblies



3M™ VHB™ Tapes (pg 62–69)

High-strength bonding tapes are a proven alternative to screws, rivets, welds and other mechanical fasteners. 3M[™] VHB[™] Tape offers instant strength, a high ultimate bond and seals simultaneously. 3M[™] VHB[™] Tape's viscoelasticity allows relative movement of parts for thermal expansion/contraction. Best for flat to flat applications with a consistent bondline thickness.



3M™ Scotch-Weld™ Structural Adhesives (pg 18–35)

Acrylic, epoxy and urethane structural adhesives hold over 1,000 psi in overlap shear strength. Best suited for thinner bondlines, irregular shapes and textured surfaces where load-bearing strength is needed. Provides the highest load-bearing strength and environmental resistance.



3M™ Adhesive Sealants (pg 58-59)

Acrylic, polyurethane, nitrile and hybrid are one component adhesive technologies with outstanding sealing properties. These products are capable of filling larger and irregular gaps including rough substrates. Highly flexible formulations allow for relative movement for thermal expansion/contraction.



3M™ Reclosable Fasteners (pg 86-89)

3M™ Dual Lock™ and 3M™ Hook and Loop Reclosable Fasteners for strong yet easily removable fastening solutions. These products are ideal to allow access for servicing or replacement of a panel. Generally backed with 3M™ VHB™ Tape or other 3M adhesive technologies.

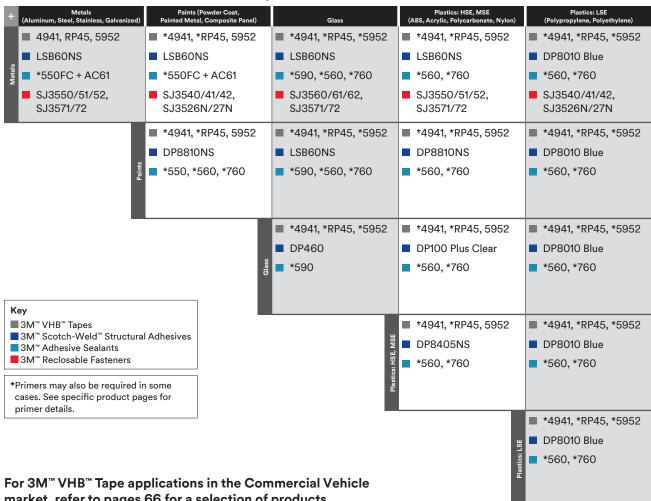
Performance Factors for Panel to Frame/Stiffener to Panel Assemblies

All 3M technologies in the table below are commonly used in panel applications. Use the table below as a relative comparison of product performance.

C	Better = 🕶	D 000
Good = 🖼	Better = COCO	Best = CCC

Attribute	3M™ VHB™ Tapes	3M™ Scotch-Weld™ Structural Adhesives	3M [™] Adhesive Sealants	3M™ Reclosable Fasteners
Number of Steps to Apply and Ease of Application	000	000	00	00
Rate of Strength Build	000	••	•	000
Flexibility and Joint Expansion	000	•	000	000
Holding Power	•	000	ФФ	•
Repair/Removal After Cure	000	0	00	000

Panel to Frame/Stiffener to Panel Assembly Solutions

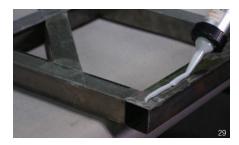


market, refer to pages 66 for a selection of products.









This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What are Small Joint Assemblies?

Small joint assemblies exist in multiple markets, such as sporting goods, electronics, furniture, motors and electrical.



Small Joint: Small joints are typically irregularly shaped but only a few inches of overlap area. They may be insertion joints or overlap joints, or some combination. Examples include sporting goods (e.g., golf club heads to shaft), plastic casings, lens mounting for instrumentation, mortise and tenon furniture joints, thread locking or shaft retailing, magnet bonding and jewelry making.

Possible Adhesive or Tape Requirements:

- Low viscosity for tight fitting parts
- Vibration resistance
- Very high strength
- Bond dissimilar materials

Best 3M Solutions for Small Joint Assemblies



3M™ Scotch-Weld™ Structural Adhesives (pg 18–35)

Acrylic, epoxy and urethane structural adhesives hold over 1000 psi in overlap shear strength. Best choice for highest strength, fatigue and environmental resistance especially for metal to metal bonds.



3M™ Scotch-Weld™ Instant Adhesives (pg 29)

One part solvent-free adhesive that reaches handling strength in 5–10 seconds. Best for small bondlines (<10cm²). Commonly used on rubbers and plastics. Very tight bondlines are achievable with near instant strength.



3M™ Hot Melt Adhesives (pg 44–45)

100% solid, thermoplastic resins that reach bond strength in seconds. Best for wood and plastic.



3M™ Scotch-Weld™ PUR Adhesives (pg 38–39)

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Best for wood and plastic.



3M™ Scotch-Weld™ Retaining Compounds (pg 33)

One-part anaerobic adhesives cure between metal surfaces. Permanent and removable grades are available.



3M™ Scotch-Weld™ Threadlockers (pg 32)

One-part anaerobic adhesives cure between metal surfaces. Permanent and removable grades are available.

Performance Factors for Small Joint Assemblies

All 3M technologies in the table below are commonly used in small joint applications. Use the table below as a relative comparison of product performance.

"Scotch-Weld™ 3M™ Scotch-Weld™ 3M™ Hot Melt 3M™ Scotch-Weld™ 3M™ Scotch-Weld™	comparison of product performance.			Good - W Better	- OO best - OOO
		3M™ Scotch-Weld™	3M™ Hot Melt		3M™ Scotch-Weld™

Attribute	3M™ Scotch-Weld™ Structural Adhesives	3M™ Scotch-Weld™ Instant Adhesives	3M™ Hot Melt Adhesives	3M™ Scotch-Weld™ PUR Adhesives	3M™ Scotch-Weld™ Threadlockers
Shear and Peel Strength	000	••	⊕	000	••
Temperature and Solvent Resistance	000	0	00	000	00
Aesthetics	•	000	••	••	••
Rate of Strength Build	Ф	000	000	00	00
Rework	0	00	00	•	000

Small Joint Assembly Solutions

Siliali Jollit Asse	ilibiy Solutions					
+ Metal (Unpainted)	Metal (Painted)	Glass, Ceramic, Stones	Rubber, Elastomers	Plastics: HSE, MSE (ABS, Acrylic, Polycarbonate, Nylon)	Plastics: LSE (Polypropylene, Polyethylene)	Wood
■ DP420NS	■ DP8805NS	■ DP420NS	2216	■ DP8805NS	■ DP8010 Blue	■ DP100 Plus
1 3747, 3789 1 1 1 1 1 1 1 1 1 1	3747, 3764	3747, 3789		3764, 3747	3748, 3764	3792
■ 3747, 3789 ■ RT09 ■ TL62				■ TE040,	■ TE040,	EZ25150
TL62				EZ250150	EZ250150	
	■ DP8805NS	DP100 Plus	■ DP620NS	■ DP8805NS	■ DP8010 Blue	■ DP620NS
rted)	PR100	PR100	*PR100	PR100	*PR100	SI100
Metal (Painted)	3747, 3764	3764, 3792		3748, 3764	3748, 3764	3764, 3792
Meta				■ TE040,	■ TE040,	EZ25150
				EZ250150	EZ250150	
	se	DP100 Plus	■ DP100 Plus	■ DP100 Plus	■ DP8010 Blue	■ DP420NS
	Ston Ston	PR100	*PR100	PR100	*PR100	SI100
	Glass, Ceramic, Stones	3792		3748, 3764	3748, 3764	3792
	lass, C					EZ250120,
	G					EZ250150
		ဖွာ	- *PR100	■ DP620NS	*PR100	■ DP604NS
		stome		*PR100		*SI100
		Rubber, Elastomers				
Key		Rubb				
■3M [™] Scotch-Weld [™] S	Structural Adhesives					
3M™ Scotch-Weld™ I 3M™ Hot Melt Adhes			ш	DP8405NS,	■ DP8010 Blue	■ DP620NS
■3M™ Scotch-Weld™ I	PUR Adhesives		E, MS	DP8805NS	*PR100	SI100
■ 3M™ Scotch-Weld™ I ■ 3M™ Scotch-Weld™	• .		Plastics: HSE, MSE	PR100	3748, 3764	3764, 3792
*D.			Plast	3748, 3764		EZ250150
*Primers may also be re See specific product p	equired in some cases. Pages for primer details.			EZ250150		
		_			■ DP8010 Blue	■ DP8010NS
				. LSE	*PR100	<u>*</u> *SI100
				Plastics: LSE	3748, 3764	3764, 3792
						EZ250150
						■ DP100
					-	SI100
					Роом	
						EZ250120, EZ250060
						LZZ30000







This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What are Large Surface Lamination Assemblies?



Large surface bonds and laminations exist in multiple markets, such as transportation, appliance, furniture and construction.

Large Surface Lamination: Two surfaces (substrates) of similar size, either rigid or flexible, are bonded or laminated together where a majority of the surface is covered by the adhesive or tape in order to create the bond. Examples include high pressure laminate to tabletops, fabric to foam for furniture, veneers on wood and flexible transportation flooring.

Possible Adhesive or Tape Requirements:

- Cover full surface
- Flexible when dry; not stiff
- Allow for positioning parts

Good = Better = Best = Best

 Bonds quickly/little or no fixturing

Best 3M Solutions for Large Surface Lamination Assemblies



3M™ Scotch-Weld™ Structural Adhesives (pg 18–35)

Acrylic, epoxy and urethane structural adhesives hold over 1,000 psi in overlap shear strength. Best suited for applications where high load-bearing strength is required.



3M™ Contact and Spray Adhesives (pg 54–57)

Solvent and water based adhesives can be sprayed, brushed or roll applied. Very fast and easy coverage of large areas including irregular and mildly textured shapes. Bonds the widest range of substrates.



3M™ Hot Melt Adhesives (pg 44–45)

100% solid, low VOC thermoplastic resins that reach bond strength in seconds. Long open-time formulations can be spray applied. Bonds irregular shapes and textured surfaces.



3M™ Scotch-Weld™ PUR Adhesives (pg 38–39)

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Long open-time formulations can be spray applied.



■ 3M[™] Adhesive Transfer Tapes (pg 78–81)

A pressure sensitive adhesive on a liner. Can be laminated onto a surface by hand or by automation. Instant adhesion with no mess or waste and very thin bondlines.

Performance Factors for Large Surface Lamination Assemblies

All 3M technologies in the table below are commonly used in large surface bonding applications. Use the table below as a relative comparison of product performance.

Attribute	3M [™] Scotch-Weld [™] Structural Adhesives	3M [™] Contact and Spray Adhesives	3M [™] Hot Melt Adhesives	3M™ Scotch-Weld™ PUR Adhesives	3M [™] Adhesive Transfer Tapes
Shear and Peel Strength	000	•	00	000	••
Temperature and Solvent Resistance	000	•	00	000	•
Aesthetics and Read Through	⊕	000	••	••	000
Speed and Convenience of Application	0	000	00	⊕ ⊕	00
Rate of Strength Build	0	000	000	00	000

Large Surface Lamination Assembly Solutions

Large Surface Lami	Large Surface Lamination Assembly Solutions								
+ Metals, Paints, Glass	Rubber (EPDM, Santoprene®)	Foam and Cloth (Urethane, Fabrics)	Plasticized Vinyl	Plastics (ABS, Acrylic, Polycarbonate, Nylon)	Wood				
■ LSB60	2216	■ 74, 100NF	2216	2216	2216				
₂ ■ 94 CA, 1357	1300, 847	■ 6111/6111HT	■ 4491, 1000NF	■ 94 CA, 4475	94 CA, 1357				
ਰੂੰ ■ 6111/6111HT	■ *468MP, 950	■ 6035PC, 950	■ F9467U,	■ 6111/6111HT, 6116	■ 6111/6111HT				
94 CA, 1357 e 6111/6111HT TS230, TS115HGS			F9465PC	■ TS230, TS115 ■ 468MP, 9472LE	■ TS230, TS115HGS				
■ F9473PC, 9485PC				400WII , 047ZZZ	■ 6035PC, 468MP				
	2216	4799	2216	■ 2216	2216				
	4799	■ TS230, TS115	4799	4799	4799				
Rubber	■ TS230	■ 6035PC, 950	■ TS230, TS115	■ TS230, TS115	■ TS230,				
	■ *468MP, 950		■ *F9467U,	■ *468MP, 9472LE	TS115HGS				
			F9465PC		■ *468MP, 950				
		■ 74, 100NF	■ 4491, 1000NF	77, 74	■ 77, 1000NF				
	oam and Cloth	6111/6111HT, 6116	■ TS230, TS115 ■ 950, F9465PC	■ 6111/6111HT, 6116 ■ TS230, TS115	■ 6111/6111HT, 6116				
	oam an	■ TS230, TS115		■ 950, 6035PC	■ TS230,				
	ı.	■ 6035PC, 950		_ 333, 3333. 3	TS115HGS				
					■ 950, 6035PC				
Key			2216	2216	2216				
■ 3M™ Scotch-Weld™ Strue	ctural Adhesives	Vinyl	4491, 1300	4491, 1300	4491, 1000NF				
■ 3M™ Contact and Spray		Plasticized Vimyl	TS230, TS115	TS230, TS115	■ TS230, TS115HGS				
■ 3M [™] Scotch-Weld [™] PUR ■ 3M [™] Adhesive Transfer 1	Adhesives	Pas	■ F9467U, F9465PC	■ F9467U, F9465PC	■ F9467U, F9465PC				
*Primers may also be requir	red in some	_		2216	■ 2216				
cases. See specific produc	et pages for			94 CA, 4475	■ 2216 ■ 94 CA, 4475				
primer details.				6111/6111HT, 6116	■ 94 CA, 4475 ■ 6111/6111HT,				
			Plastics	■ TS230, TS115	6116				
			P. P.	■ 9472LE, 468MP	■ TS230, TS115HGS				
			_		■ 9472LE, 468MP				
			_		2216				
75					■ 94 CA, 30NF				
				ים	■ 6111/6111HT, 6116				
				Моод	■ TS230, TS115HGS				
					■ 6035PC, 468MP				
		P		_					







This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What are Mounting and Trim Attachment Assemblies?



Mounting and trim attachment exists in multiple markets, such as transportation, appliance, furniture, construction and architecture.

Mounting: Applying an object to a surface. Generally, static loads are prevalent and the mounted item is smaller than the surface to which it is bonded. Examples include small signs, mirrors and white boards, and panel-over-panel with partial adhesive coverage.

Trim: Decoration or identification added to a surface. Examples include nameplates, edge banding, bezels, rosettes and muntin bars.

Possible Adhesive or Tape Requirements:

- Dead load holding strength
- Aesthetics
- Removability
- Fast bonding/little or no fixturing

Best 3M Solutions for Mounting and Trim Attachment Assemblies



3M™ VHB™ Tapes (pg 62–69)

High-strength bonding tapes are a proven alternative to screws, rivets, welds and other mechanical fasteners. Can pre-apply to trim for production flexibility. Ideal for dissimilar substrates.



3M™ Scotch-Weld™ Structural Adhesives (pg 18–35)

Acrylic, epoxy and urethane structural adhesives hold over 1,000 psi in overlap shear strength. Use for heavy dead-loads with smaller joint areas (Example: brackets on heavy panels, poorly matched parts with high spring-back forces).



3M™ Scotch-Weld™ Instant Adhesives (pg 29)

One part solvent-free cyanoacrylate (CA) adhesive that reaches handling strength in 5–30 seconds. Best for small very tight bondlines (<10cm²). Commonly used on rubbers and plastics.



■ 3M[™] Hot Melt Adhesives (pg 44–45)

100% solid, thermoplastic resins that reach bond strength in seconds. Best for wood and plastic.



3M™ Scotch-Weld™ PUR Adhesives (pg 38–39)

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Best for wood and plastic.

3M™ Reclosable Fasteners (pg 86-89)

3M™ Dual Lock™ and 3M™ Hook and Loop Reclosable Fasteners for strong yet easily removable fastening solutions. These

products are ideal for quick mounting, trim or sign installation and change out.

■ 3M[™] Adhesive Transfer Tapes (pg 78–81)

A pressure sensitive adhesive on a liner. Can be laminated onto a surface by hand or by automation. Can be pre-applied to trim. Provides very thin, aesthetic bondlines. Special formulations for LSE plastics.

■ 3M[™] Double Coated Tapes

(pg 71-76)

A paper, film or tissue carrier with pressure sensitive adhesive on both sides. Can be laminated onto a surface by hand or by automation. Can be pre-applied to trim. Provides very thin, aesthetic bondlines. Special formulations for LSE plastics.

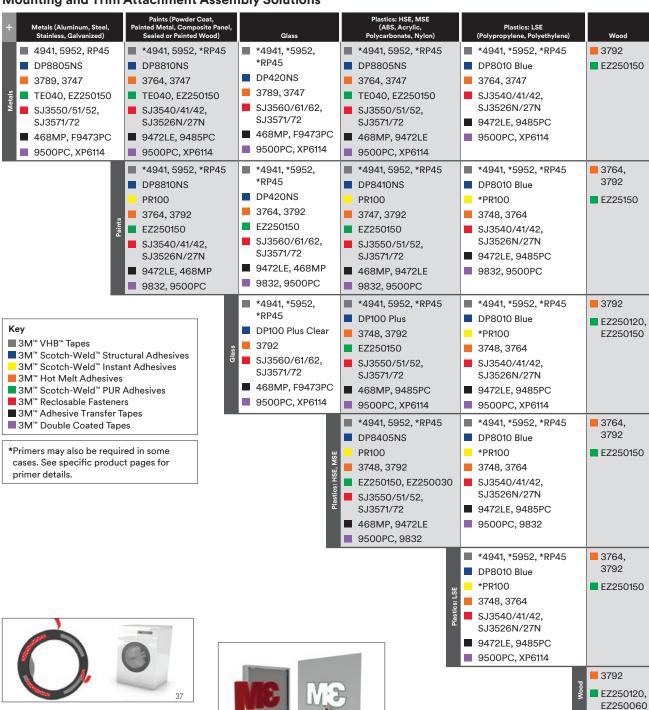
Performance Factors for Mounting and Trim Attachment Assemblies

All 3M technologies in the table below are commonly used in mounting and trim attachment applications. Use the table below as a relative comparison of product performance.

Good = 🕕	Better = 🕶 🗗	Best =

Attribute	3M™ VHB™ Tapes	3M™ Scotch-Weld™ Structural Adhesive	3M™ Scotch-Weld™ Instant Adhesive	3M™ Hot Melt Adhesives	3M™ Scotch-Weld™ PUR Adhesives	3M™ Reclosable Fasteners	3M™ Adhesive Transfer Tapes	3M™ Double Coated Tapes
Shear and Peel Strength	00	000	00	00	000	0	•	•
Temperature and Solvent Resistance	00	000	Φ	Ф	000	00	00	00
Aesthetics	000	•	00	00	00	00	000	000
Repositionability During Application	0	000	Φ	Ф	00	00	0	00
Rate of Strength Build	000	Φ	000	000	00	000	000	000
Removable After Cure	00	N/A	•	0	N/A	000	00	00

Mounting and Trim Attachment Assembly Solutions











For 3M™ VHB™ Tape applications in the Window and Door market, refer to page 68 for a selection of products.

This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What are Gasket Attachment Assemblies?

Gaskets are used in multiple markets, such as electronics, transportation, fluid handling equipment and appliance.



Gasketing: Attachment of a substrate typically, foam, rubber or paper that acts as an interface or seal between two surfaces. 3M offers solutions for attaching preformed gaskets, and also solutions which can replace gaskets or bond and seal simultaneously.

Examples include air and liquid filters, fluid handling equipment,

Examples include air and liquid filters, fluid handling equipment, heat exchangers and ball joints.

Possible Adhesive or Tape Requirements:

Easy and fast to apply gaskets

Good = Better = Best = Best

- Resist fluids
- High adhesion to foams and rubber

Best 3M Solutions for Gasket Assemblies



■ 3M[™] VHB[™] Tapes (pg 62–69)

High-strength bonding tapes that can be die-cut into a variety of shapes to replace rubber or foam gaskets, providing an instant, simple solution. Their closed-cell construction provides a watertight barrier between flat parts.



3M™ Scotch-Weld™ Instant Adhesives (pg 29)

One part solvent-free cyanoacrylate (CA) adhesive that reaches handling strength in 5–30 seconds. Best for small very tight bondlines (<10cm²). Commonly used on rubbers and plastics.



3M™ Scotch-Weld™ Gasket Makers (pg 33)

One-part anaerobic adhesives can be applied as a curing liquid gasket between complex metal shapes, replacing pre-formed gaskets.



3M™ Contact and Spray Adhesives (pg 54–57)

Solvent and water based adhesives can be sprayed, brushed or roll applied. Very fast, easy and economical coverage of multiple substrates, irregular shapes and mild textures.



3M™ Adhesive Transfer Tapes (pg 78–81)

Can be pre-applied to gasketing material which is then die-cut to provide parts. These products provide instant adhesion to flat, untextured substrates.



3M™ Double Coated Tapes (pg 71–76)

Can be pre-applied to gasketing material which is then die-cut to provide parts. These products provide instant adhesion.

Performance Factors for Gasket Assemblies

All 3M technologies in the table below are commonly used in gasket attachment applications. Use the table below as a relative comparison of product performance.

Attribute	3M™ VHB™ Tapes	3M™ Scotch-Weld™ Instant Adhesives	3M™ Scotch-Weld™ Gasket Makers	3M™ Contact and Spray Adhesives	3M™ Adhesive Transfer Tapes	3M™ Double Coated Tapes
High Strength and Rubber Bonding	N/A	000	N/A	00	0	•
Temperature and Solvent Resistance	000	•	000	000	000	000
Ease of Application	000	00	00	•	000	000
Rate of Strength Build	000	000	Ф	000	000	000

Gasket Attachment Assembly Solutions

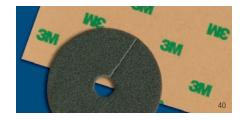
+ Metal	Glass	Paint	Plastics: HSE	Plastics: LSE
ॄ = *PR100	4799	*PR100	*PR100	* PR100
कू 📕 4799	■ *468MP, 950	4799	4799	4799
*468MP, 950	■ 9832, XT6110	■ *468MP, 950	■ *468MP, 950	■ *9472LE, 950
*PR100 4799 *468MP, 950 9832, XT6110		9832, XT6110	9832, XT6110	9832, XT6110
*PR100	■ 91022	*PR100	*PR100	*PR100
■ GM18 replace gasket	9731, 96042	91022	■ 91022	■ 91022
91022		9731, 96042	9731, 96042	9731, 96042
■ 9731, 96042				
*PR100	1300	*PR100	*PR100	*PR100
ੂੰ ■ 6035PC, 950	■ 6035PC, 950	1300	1300	■ 90
■ 6035PC, 950 ■ 9832, XT6110	■ 9832, XT6110	■ 6035PC, 950	■ 6035PC, 950	■ 6035PC, 950
		■ 9832, XT6110	■ 9832, XT6110	■ 9832, XT6110
PR100	1 099	PR100	PR100	*PR100
9472LE, XP2112	■ 9472LE, XP2112	1 099	1 099	■ 90
Ž		■ 9472LE, XP2112	■ 9472LE, XP2112	■ 9472LE, XP2112
*PR100	■ 9472LE, XP2112	*PR100	*PR100	*PR100
■ GM18 replace gasket		■ 9472LE, XP2112	■ 9472LE, XP2112	■ 9472LE, XP2112
■ 950				

3M™ VHB™ Tape can replace gaskets on many substrates listed in the chart.

3M™ Scotch-Weld™ Gasket Makers are suitable to replace gaskets in metal to metal applications.

Key 3M™ Scotch-Weld™ Instant Adhesives 3M™ Scotch-Weld™ Gasket Makers 3M™ Contact and Spray Adhesives 3M™ Adhesive Transfer Tapes 3M™ Double Coated Tapes

*Primers may also be required in some cases. See specific product pages for primer details.









This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What is Sealing of Assemblies? What is Potting and Encapsulating of Assemblies?





Sealing and potting exists in multiple markets, such as transportation, metalworking, electronics, electrical, construction and MRO.

Sealing: Tape or sealant is applied over a seam to prevent fluid ingress or fluid egress. **Examples include roof seams on vehicles, seams on metal enclosures and pipe sealing.**

Potting and Encapsulating: Adhesive flows over and around a component or fills in a chamber to protect components therein. Examples include heavy duty electrical cords and connectors, electronics in plastic cases, circuit boards and concrete repair.

Possible Adhesive or Tape Requirements:

- Highly elongating/flexible
- Fast cure for painting
- Durability

Best 3M Solutions for Sealing, Potting and Encapsulating



3M™ Scotch-Weld™ Structural Adhesives (pg 18–35)

Acrylic, epoxy and urethane structural adhesives are available in a variety of cure times and flow profiles for potting and encapsulation. Available in both rigid and flexible formulations.



3M™ Hot Melt Adhesives (pg 44–45)

Extrudable, 100% solid, thermoplastic resins designed for potting and encapsulating electrical components.



3M™ Adhesive Sealants (pg 58-59)

Acrylic, polyurethane and nitrile and hybrid are one component sealing technologies. Can be extruded in any shape on a substrate and are non-sag to fill gaps. Some formulations can be painted wet.



3M™ Extreme Sealing Tapes (pg 70)

Provides instant sealing and paint-ability when applied over seams or gaps. Conformable over rivets.

Performance Factors for Sealing, Potting and Encapsulating

All 3M technologies in the table below are commonly used in sealing, potting and encapsulation applications. Use the table below as a relative comparison of product performance.

Good = ⊕ Better = ⊕ ⊕ Best = ⊕ ⊕ ⊕

Attrib	ute	3M™ Scotch-Weld™ Structural Adhesives	3M [™] Hot Melt Adhesives	3M [™] Adhesive Sealants	3M™ Extreme Sealing Tapes
	Flexibility	N/A	N/A	000	000
gui	Ease of Application	N/A	N/A	000	00
Sealing	Time to Paint (or handle part)	N/A	N/A	•	000
	Immediate Rework	N/A	N/A	000	•
_ 6c	Temperature and Solvent Resistance	000	00	•	N/A
ng and sulating	Time to Paint (or handle part)	00	000	•	N/A
Pottin Encaps	Flowability*	000	ФФ	•	N/A
	Adhesion to Substrates	000	00	Ф	N/A

^{* 3}M[™] Scotch-Weld[™] Structural Adhesives and 3M[™] Hot Melt Adhesives are used for potting and encapsulating where their flow and conformability allow them to fill into, or dome over, complex shapes. 3M[™] Adhesive Sealants are thick and can be dispensed into wide vertical or horizontal gaps, as well as over seams. 3M[™] Extreme Sealing Tape seals over seams and narrow gaps but does not flow into gaps. It can conform over low profile objects such as rivet heads.

Sealing, Potting and Encapsulating Assembly Solutions

ocaning, i occing and Enc	apsulating Assemb	ny colutions		
+ Metals (Aluminum, Steel, Stainless, Galvanized)	Paints (Powder Coat, Painted Metal, Composite Panel)	Glass	Plastics: HSE, MSE (ABS, Acrylic, Polycarbonate, Nylon)	Plastics: LSE (Polypropylene, Polyethylene)
■ 2216, DP270	2216, DP604NS	■ DP125 Gray,	■ 2216, DP604NS	■ DP8010 Blue
	3797, 3748 VO	DP100 Plus Clear	■ 3797, 3748 VO	■ 3797, 3748 VO
*540, *740	*540, *740	*540, *740	* 540, * 740	* 540, * 740
4411B, 4411N, 4411G	4411B, 4411N, 4411G	4411B, 4411N, 4411G	4411B, 4411N, 4411G	*4411B, *4411N, *4411G
	2216, DP604NS	■ DP125 Gray,	■ 2216, DP604NS	■ DP8010 Blue
	*540, *740	DP100 Plus Clear	* 540, * 740	* 540, * 740
Paints	4411B, 4411N, 4411G	*540, *740 4411B, 4411N, 4411G	■ 4411B, 4411N, 4411G	*4411B, *4411N, *4411G
_		■ DP125 Gray, DP100 Plus Clear	■ DP125 Gray, DP100 Plus Clear	■ DP8010 Blue ■ *540, *740
	Glass	*540, *740	* 540, *740	*4411B, *4411N,
Key		4411B, 4411N, 4411G	4411B, 4411N, 4411G	*4411G
3M [™] Scotch-Weld [™] Structural A	Adhesives		■ 2216, DP604NS	■ DP8010 Blue
■ 3M™ Adhesive Sealants		MSE.		■ 3797, 3748 VO
■ 3M™ Extreme Sealing Tapes		HSE:	* 540, *740	* 540, * 740
*Primers may also be required in s cases. See specific product page primer details.		Plastics: HSE, MSE	■ 4411B, 4411N, 4411G	*4411B, *4411N, *4411G
				■ DP8010 Blue
			я Б	■ 3797, 3748 VO
			Plastics: LSE	* 540, * 740
			<u>q</u>	*4411B, *4411N, *4411G







This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

3M Industrial Adhesives and Tapes

Notes:	

Adhesives

The best formulas deliver the best performance.

Powerful Adhesive Solutions

3M offers a wide range of innovative adhesives and sealants designed for industrial markets. High quality, precision formulations with proven performance provide reliable, long-term durability for a variety of applications, indoors and out.

3M™ Scotch-Weld™ Structural Adhesives

Improving product and process.

In today's world, successful new products demand advancements in both design and manufacturing processes. Industrial engineering and design professionals around the world depend on 3M™ Scotch-Weld™ Structural Adhesives to help them design beyond the limits of mechanical fasteners to create next generation products.

Trusted innovations from aerospace to office space.

With over 50 years of experience developing innovative structural adhesives for aerospace, automotive and hundreds of other industries, 3M delivers the solutions you can trust. Our advanced formulations create durable bonds, even on challenging materials or in extreme conditions.



Advanced product designs and process innovations.

The benefits of designing and building products with 3M Scotch-Weld Structural Adhesives help drive product success.

- Freedom of Design: Improve aesthetics, reduce weight and noise, enhance corrosion and fatigue resistance and more.
- Process Efficiencies: Speed production with quiet, fast and easy manufacturing processes.
- Low Odor Advantages:

Improve your environment with 3M's low odor structural adhesives.

• Dispensing Options: Dispense by hand or with automated equipment.



3M global service and support.

3M supports our customers with the testing, technology and training needed to create better products. Our world-wide support staff has the experience you can rely on for everything from structural adhesive selection to process improvement.



Leverage 3M's proven selection of structural adhesives, deep industry expertise and technical support to your advantage.

Design with Confidence. **Build to Last.**

Simplifying adhesive decisions for your application.

What materials will be bonded?

Structural adhesives work by adhering to the top surface of the bonded parts, so it's important to know the exact material and condition on those surfaces. For metals, will the adhesive be applied to bare metal, or will there be a paint or coating on the surface? For plastics, exactly which base resin? Could there be residual release agents on the surfaces used for mold release?

What is the preferred cure speed?

The chosen structural adhesive must have enough work life (open time, pot life) to allow proper mixing and application of the adhesive and assembling of the bonded parts. Smaller assemblies or shorter cycle time production processes may be able to use a faster curing adhesive with a work life of only five minutes or less, while larger assemblies that require alignment and clamping will probably need a work life of 20 minutes or more.

What surface preparation will be required?

Structural adhesives generally prefer clean, rough, dry surfaces for highest bond strength. This typically means either light abrasion and solvent cleaning of the surface, or solvent cleaning followed by chemical etching or applying a primer. Adhesion tests should be performed to determine the adequate surface preparation for a specific application.

What types of joints are best for structural adhesives?

Joint designs that put the adhesive bond under shear, tension, or compression forces will provide the highest strength. Designs that tend to apply peel or cleavage forces to the adhesive, where the applied stresses are not distributed over the entire bond area, will have lower bond strength, but the bond may still be sufficient for the needs of the application. In addition, optimum bond line thickness typically ranges from 0.005" to 0.020". The adhesive qualification process should always include testing of prototype assemblies to ensure the adhesive will provide enough performance.



Tensile is pull exerted equally over the entire joint. Pull direction is straight and away from the adhesive bond.



Shear is pull directed across the adhesive, forcing the substrates to slide over each other.



Peel is concentrated along a thin line at the edge of the bond where one substrate is flexible.



Cleavage is pull concentrated at one edge of the joint, exerting a prying force on the bond. The other edge of the joint is theoretically under zero stress.

How are structural adhesives used and applied?

Structural adhesives come in many forms, including low viscosity liquids and non-sag pastes, one- and two-component formulations, short and long work lives, and various package sizes and shapes. Most two-part structural adhesives are available in both bulk containers and convenient, easy-to-use dispense cartridge mixing systems.

What are the general characteristics of the different types of structural adhesives?

All structural adhesives provide at least 1,000 psi of overlap shear strength to aluminum, but each have various properties:

- Epoxy adhesives come in both two-part adhesives (that cure upon mixing the two components) and one-part adhesives (that cure with temperature). Generally, they have the highest strength and overall performance, and provide the best resistance to high temperatures, solvents and outdoor weathering. They adhere well to metals, woods and concrete, and flexible epoxy adhesives also bond to some plastics and rubbers. Epoxy adhesives usually require clean, abraded surfaces to obtain maximum bond strength.
- Acrylic adhesives are two-part adhesives that provide excellent bond strength and durability, although slightly lower than epoxy adhesives. However, they have several features that make them easier to use, including a much faster cure speed, higher tolerance for oily or unprepared bonding surfaces and the ability to bond a wide variety of materials, including nearly all plastics. Newer acrylic adhesive formulations are room temperature stable with a long shelf life, and some have much lower odor than regular acrylic adhesives.
- **Urethane adhesives** are two-part adhesives that are relatively flexible when cured, have excellent impact resistance and good adhesion to most plastics. They also bond well to woods, concrete and rubbers, but have reduced resistance to solvents and high temperatures. Uncured adhesive components are sensitive to moisture.
- Cyanoacrylate adhesives (instant adhesives) are one-component, lower viscosity liquids that cure extremely quickly with just contact pressure and surface moisture. They adhere well, with thin bond lines, to plastics, metals and rubbers. With the use of primers, they can also adhere to low surface energy plastics and elastomers. They have lower flexibility, peel strength and impact resistance compared to other structural adhesives. They are generally used for gasket bonding and smaller assemblies.
- Anaerobic adhesives are one-part adhesives that cure on active metal surfaces when oxygen gets excluded from the bond line. They keep your factory running efficiently, reducing maintenance and leakage. They do not bond well to glass, plastics or rubbers, and are primarily used for locking threads and sealing pipe connections.

Key markets and applications for 3M™ Scotch-Weld™ Structural Adhesives.



Aerospace

Key Benefits

- Flame, smoke and toxicity compliance
- UL94 V-0 rated formulation
- Strong, yet flexible formulations

Lead Products

2216 Gray, DP100FR, DP640





Appliance

Key Benefits

- Bonds powder coated materials
- Noise dampening
- Joins plastic and glass to metals

Lead Products

DP125 Gray, DP8810NS, TL42





Electronics

Key Benefits

- Low halogen
- Fast curing
- Potting

Lead Products

DP420LH, DP270, DP8805NS, PR100





Metalworking

Key Benefits

- High strength
- Reduces surface preparation
- Replaces mechanical fasteners

Lead Products

DP420NS Black, DP8410NS, LSB60NS





Plastic, Composite & Rubber

Key Benefits

- Bonds low surface energy plastics without priming
- Impact resistant composite bonding

Lead Products

DP8010 Blue, DP420NS, PR100





Signage

Key Benefits

- Bonds a variety of materials
- Weather resistant
- UL recognized

Lead Products

DP8805NS, DP8405NS, DP100 Plus





Specialty Vehicle

Key Benefits

- Reduces weight
- High strength
- Vibration and fatigue resistant

Lead Products

DP8810NS, LSB60NS, TL42





Sporting Goods

Key Benefits

- Excellent impact resistance
- High strength for small joints
- Bonds rubber, composites and metals

Lead Products

DP420NS Black, DP8810NS, PR100



3M Industrial Adhesives and Tapes

3M™ Scotch-Weld™ Structural Adhesives



		B:A	ıţ.		0 #	ŧ	Over	lap Shear	(psi)			
Product (Color)	Key Features	Mix Ratio (Volume) B	Approximate Viscosi at 75°F (24°C) (cP)	Approximate Mixed Work Life at 75°F (24°C)	Approximate Time to Handling Strength at 75°F (24°C)	Floating Roller Peel at 75°F (24°C)	-67°F (-55°C)	75°F (24°C)	180°F (82°C)	Size	UPC	Stock#
	Weld [™] Rigid Epoxies		10.000				000	1.500	000		00 004000 00040 0	00.0575.4405.5
DP100 100 (Clear)	General purpose. Rigid bonds.	1:1	13,000	5 minutes	20 minutes	2	900	1,500	300	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-22648-9 00-021200-87260-0 00-021200-87261-7 00-021200-82344-2 00-021200-82345-9	62-3575-1435-5 62-3575-3830-5 62-3575-3530-1 62-3575-8531-4 62-3675-8531-2
DP100FR 100FR (Cream)	Flame retardant. UL94 V-0 rating.	1:1	80,000	6 minutes	20 minutes	2	1,250	2,200	800	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-048011-56742-6 00-048011-56744-0 00-048011-56743-3 00-048011-57229-1 00-048011-57230-7	62-3531-1435-8 62-3531-3830-8 62-3531-3530-4 62-3531-8530-9 62-3631-8530-7
DP100NS 100NS (Translucent)	General purpose. Non-sag.	1:1	95,000	5 minutes	20 minutes	2	900	1,500	300	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-82255-1 00-021200-87264-8 00-021200-87265-5 00-021200-82256-8 00-021200-82257-5	62-3265-1435-3 62-3265-3830-3 62-3265-3530-9 62-3265-8530-4 62-3365-8530-2
DP190 (Gray)	High performance. Slightly flexible bonds.	1:1	80,000	90 minutes	10 hours	50	1,500	2,500	400	50mL 200mL 400mL	00-021200-22647-2 00-021200-87840-4 00-021200-87841-1	62-3553-1435-2 62-3553-3830-2 62-3553-3530-8
DP270 270 (Black)	Rigid potting compound. Non-corrosive.	1:1	12,000	60 minutes	3 hours	2	1,200	2,500	300	50mL 200mL 400mL 1 gal. kit 5 gal. pail B 5 gal. pail A	00-021200-82262-9 00-021200-87836-7 00-021200-87837-4 00-021200-82263-6 00-021200-82264-3 00-021200-82265-0	62-3266-1435-1 62-3266-3830-1 62-3266-3530-7 62-3266-7430-6 62-3266-8530-2 62-3366-8530-0
DP270 270 (Clear)	Rigid potting compound. Non-corrosive.	1:1	12,000	60 minutes	3 hours	2	1,200	2,500	300	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-82248-3 00-021200-87834-3 00-021200-87835-0 00-021200-82250-6 00-021200-82251-3	62-3262-1435-0 62-3262-3830-0 62-3262-3530-6 62-3262-8530-1 62-3362-8530-9
1751 B/A (Gray)	Excellent void filler. Rigid bonds.	3:2	700,000	45 minutes	10 hours	4	1,400	2,000	500	2 oz. tube kit 1 pt. kit 1 qt. kit 1 gal. kit 5 gal. pail B 5 gal. pail A	00-021200-20100-4 00-021200-20101-1 00-021200-20103-5 00-021200-20105-9 00-021200-20108-0 00-021200-20120-2	62-1751-0530-3 62-1751-5430-1 62-1751-6430-0 62-1751-7430-9 62-1751-8530-5 62-1752-8530-3
1838 B/A (Green)	Multi-purpose. Rigid bonds.	4:5	400,000	60 minutes	8 hours	4	1,500	3,000	500	2 oz. tube kit 1 pt. kit 1 qt. kit 1 gal. kit 5 gal. pail B 5 gal. pail A	00-021200-20148-6 00-021200-20150-9 00-021200-20152-3 00-021200-20154-7 00-021200-20155-4 00-021200-20160-8	62-1838-0530-8 62-1838-5430-6 62-1838-6430-5 62-1838-7430-4 62-1838-8530-0 62-1839-8530-8
1838 B/A (Tan)	Multi-purpose. Rigid bonds.	5:6	250,000	60 minutes	8 hours	4	1,500	2,000	500	1 qt. kit 5 gal. pail B 5 gal. pail A	00-021200-22599-4 00-021200-22600-7 00-021200-22603-8	62-1614-6435-9 62-1614-8535-4 62-1752-8535-2
1838L B/A (Translucent)	Multi-purpose. Rigid bonds.	1:1	10,000	60 minutes	8 hours	4	2,000	2,500	300	2 oz. tube kit 1 qt. kit 5 gal. pail B 5 gal. pail A	00-021200-22645-8 00-021200-22646-5 00-021200-82634-4 00-021200-82635-1	62-3520-0535-9 62-3520-6435-6 62-3520-8531-0 62-3620-8531-8
2158 B/A (Gray)	Multi-purpose. Rigid bonds.	1:1	375,000	2 hours	10 hours	3	1,500	2,000	400	1 pt. kit 1 qt. kit 1 gal. kit 5 gal. pail B 5 gal. pail A	00-021200-20258-2 00-021200-20260-5 00-021200-20262-9 00-021200-20264-3 00-021200-20269-8	62-2158-5430-8 62-2158-6430-7 62-2158-7430-6 62-2158-8530-2 62-2159-8530-0
3501 B/A (Gray)	Multi-purpose. Rigid bonds.	1:1	500,000	7 minutes	25 minutes	4	1,500	2,400	300	2 oz. tube kit 400mL 1 pt. kit 1 gal. kit 55 gal. drum	00-021200-20842-3 00-021200-45184-3 00-021200-20843-0 00-021200-20846-1 00-051111-91639-1	62-3501-0530-0 62-3501-3530-7 62-3501-5430-8 62-3501-7430-6 62-3501-9530-1

DP = Duo-Pak NS = Non-Sag

^{*} Consider these products first when evaluating adhesives for your application.

3M[™] Scotch-Weld[™] Structural Adhesives (cont.)



SIVI SCO	tch-Weld [™] St	ructi	ıraı Adr	iesives	(cont.)					29:	2	
		Mix Ratio (Volume) B:A	pproximate Viscosity t 75°F (24°C) (cP)	proximate Mixed rrk Life at 75°F °C)	oroximate Time to dling Strength at = (24°C)	Floating Roller Peel at 75°F (24°C)		rlap Shear				
Product (Color)	Key Features	Μi×	App at 7	App Wor	Appr Hand 75°F	Floa 75°	-67°F (-55°C)	75°F (24°C)	180°F (82°C)	Size	UPC	Stock #
	Weld™ Flexible Epoxie	s	'									
DP100 Plus 100 Plus (Clear)	Very flexible. Colorless.	1:1	8,500	4 minutes	20 minutes	55	3,000	3,500	200	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-87195-5 00-021200-87266-2 00-021200-87267-9 00-021200-87197-9 00-021200-87198-6	62-3272-1435 62-3272-3836 62-3272-3536 62-3272-8536 62-3372-853
DP105 105 (Clear)	Very flexible. Colorless.	1:1	6,500	5 minutes	20 minutes	50	3,500	2,000	150	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-87203-7 00-021200-87270-9 00-021200-87271-6 00-021200-87205-1 00-021200-87206-8	62-3287-1435 62-3287-383 62-3287-353 62-3287-853 62-3387-853
DP110 110 (Gray)	General purpose. Flexible bonds.	1:1	55,000	8 minutes	20 minutes	40	2,700	3,500	250	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-82470-8 00-021200-87274-7 00-021200-87275-4 00-021200-82471-5 00-021200-82472-2	62-3533-143-62-3533-353 62-3533-353 62-3533-853 62-3633-853
DP110 110 (Translucent)	General purpose. Flexible bonds.	1:1	50,000	8 minutes	20 minutes	40	2,500	2,500	200	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-82465-4 00-021200-87846-6 00-021200-87847-3 00-021200-82466-1 00-021200-82467-8	62-3563-143 62-3563-383 62-3563-353 62-3563-853 62-3663-853
DP125 125 (Gray)	High performance. Very flexible bonds.	1:1	52,500	25 minutes	2.5 hours	90	3,400	4,300	400	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-002100-87211-2 00-002100-87842-8 00-002100-87843-5 00-002100-87217-4 00-002100-87218-1	63-3291-1435 62-3291-3836 62-3291-3536 62-3293-853 62-3393-853
DP125 125 (Translucent)	High performance. Very flexible bonds.	1:1	15,000	25 minutes	2.5 hours	85	4,000	2,500	150	50mL 200mL 400mL	00-021200-87211-2 00-021200-87842-8 00-021200-87843-5	62-3291-1435 62-3291-383 62-3291-353
DP190 (Translucent)	High performance. Flexible bonds.	1:1	10,000	80 minutes	6 hours	60	3,500	1,200	150	50mL 200mL 400mL	00-021200-87219-8 00-021200-87838-1 00-021200-87839-8	62-3286-143 62-3286-383 62-3286-353
2216 B/A (Gray)	High performance. Very flexible bonds.	2:3	80,000	90 minutes	10 hours	50	3,000	3,200	400	2 oz. tube kit 1 pt. kit 1 qt. kit 1 gal. kit 5 gal. pail B 5 gal. pail A 55 gal. drum B 55 gal. drum A	00-021200-20351-0 00-021200-20354-1 00-021200-20356-5 00-021200-20356-9 00-021200-20360-2 00-021200-20365-7 00-021200-20361-9 00-021200-20366-4	62-2216-053 62-2216-543 62-2216-643 62-2216-743 62-2216-853 62-2217-853 62-2216-953 62-2217-953
2216 B/A (Translucent)	General purpose. Very flexible bonds.	1:1	10,000	2 hours	14 hours	70	3,000	1,700	140	2 oz. tube kit 1 pt. kit 1 qt. kit 1 gal. kit 5 gal. pail B 5 gal. pail A 55 gal. drum B	00-021200-20851-5 00-021200-20852-2 00-021200-20854-6 00-021200-20856-0 00-021200-64980-6 00-021200-64981-3 00-021200-20859-1 00-021200-20927-7	62-3508-053 62-3508-543 62-3508-643 62-3508-743 62-3508-853 62-3608-853 62-3608-953 62-3608-953
2216NS B/A (Tan)	High performance. Non-sag.	2:3	350,000	2 hours	10 hours	50	2,000	2,500	400	5 gal. pail B 5 gal. pail A	00-021200-87179-5 00-021200-87180-1	62-3278-853 62-3378-853
LSB90 (Off-White)	General purpose. Very flexible bonds.	1:1	25,000	90 minutes	10 hours	40	3,500	2,500	400	400mL 5 gal. pail B 5 gal. pail A 55 gal. drum B 55 gal. drum A	00-051115-63419-2 00-051115-63420-8 00-051115-63421-5 00-051115-63423-9 00-051115-63425-3	62-3556-353 62-3556-853 62-3656-853 62-3556-953 62-3656-953

DP = Duo-Pak

3M Industrial Adhesives and Tapes



		ď.			0.11	ų,	Ove	rlap Shear	(psi)			
Product (Color)	Key Features	Mix Ratio (Volume) B:A	Approximate Viscosity at 75°F (24°C) (cP)	Approximate Mixed Work Life at 75°F (24°C)	Approximate Time to Handling Strength at 75°F (24°C)	Floating Roller Peel at 75°F (24°C)	-67°F (-55°C)	75°F (24°C)	180°F (82°C)	Size	UPC	Stock#
<u> </u>	Weld™ Toughened Epox	ies						, ,	, , ,			
DP405 405 (Black)	Tough durable bonds. High impact resistance.	2:1	40,000	4 minutes	15 minutes	40	4,500	4,500	600	37mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-051111-07698-9 00-051111-07700-9 00-051111-07699-6 00-051111-07707-8 00-051111-07708-5	62-2814-1435 62-2814-3830 62-2814-3530 62-2814-8530 62-2914-8530
DP420 420 (Black)	Tough durable bonds. High impact resistance.	2:1	30,000	20 minutes	2 hours	75	4,500	4,500	1,250		00-021200-41528-9 00-021200-41530-2 00-021200-41529-6 00-021200-41531-9 00-021200-41532-6 00-021200-41533-3 00-021200-41534-0	62-2778-1435 62-2778-3830 62-2778-3530 62-2778-8530 62-2878-8530 62-2878-9530 62-2878-9530
DP420 420 (Off-White)	Tough durable bonds. High impact resistance.	2:1	30,000	20 minutes	2 hours	70	4,500	4,500	450	37mL 200mL 400mL 5 gal. pail B 5 gal. pail A 1 gal. kit B/A	00-021200-82236-0 00-021200-87832-9 00-021200-87833-6 00-021200-82238-4 00-021200-82239-1 00-021200-97347-5	62-3280-143: 62-3280-383 62-3280-353 62-3280-853 62-3380-853 62-3280-753
DP420LH 420LH (Off-White)	Tough durable bonds. Low halogen.	2:1	30,000	20 minutes	2 hours	70	4,500	4,500	1,250	37mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-051111-07244-8 00-051111-07697-2 00-051111-07696-5 00-051111-07275-2 00-051111-07276-9	62-2818-1435 62-2818-3830 62-2818-3530 62-2818-8530 62-2918-8530
DP420NS 420NS (Black)	Tough durable bonds. Non-sag.	2:1	180,000	20 minutes	2 hours	60	4,500	4,500	1,250	-	00-021200-39285-6 00-021200-39286-3 00-021200-39287-0 00-021200-56587-8 00-021200-31309-7 00-048011-58132-3 00-048011-58133-0	62-3299-143 62-3299-383 62-3299-353 62-3299-853 62-3399-853 62-3299-953 62-3399-953
DP460 460 (Off-White)	Tough durable bonds.	2:1	30,000	60 minutes	4 hours	80	4,500	4,500	700	37mL 200mL 400mL 1 qt. kit 5 gal. pail B 5 gal. pail A	00-021200-82225-4 00-021200-87830-5 00-021200-87831-2 00-021200-82226-1 00-021200-82227-8 00-021200-82228-5	62-3593-143 62-3593-383 62-3593-353 62-3593-643 62-3593-853 62-3693-853
DP460NS 460NS (Off-White)	Tough durable bonds. Non-sag.	2:1	125,000	60 minutes	4 hours	70	4,900	4,650	1,350	37mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-43670-3 00-021200-43671-0 00-021200-43672-7 00-021200-43673-4 00-021200-43674-1	62-2792-1435 62-2792-3836 62-2792-3536 62-2792-8536 62-2892-853
LSB60 (Gray)	Tough durable bonds. High impact resistance.	1:1	30,000	90 minutes	10 hours	15	3,400	4,500	900		00-051115-63411-6 00-051115-63414-7 00-051115-63416-1 00-051115-63417-8 00-051115-63418-5	62-3554-353 62-3554-853 62-3654-853 62-3554-953
LSB60NS (Gray)	Tough durable bonds. Non-sag. High impact resistance.	1:1	180,000	90 minutes	10 hours	30	3,800	4,500	800		00-051115-63426-0 00-051115-63427-7 00-051115-63428-4 00-051115-63429-1 00-051115-63430-7	62-3562-353 62-3562-853 62-3662-853 62-3562-953 62-3662-953
LSB360NS (Green)	Tough durable bonds. Non-sag. Extra long work life. Bonds oily metals.	1:1	Paste	10 hours	16 hours	30	4,000	3,900	800	400mL	00-051111-64291-3	62-3560-353

3M[™] Scotch-Weld[™] Structural Adhesives (cont.)



		∢	>				Ove	lap Shear	(psi)			
Product (Color)	Key Features	Mix Ratio (Volume) B:A	Approximate Viscosity at 75°F (24°C) (cP)	Approximate Mixed Work Life at 75°F (24°C)	Approximate Time to Handling Strength at 75°F (24°C)	Floating Roller Peel at 75°F (24°C)	-67°F (-55°C)	75°F (24°C)	180°F (82°C)	Size	UPC	Stock #
· · · · · ·	-Weld™ Low Odor Acryli				, – .		(33 3)	(= : =)	(02 0)	0.20	0.0	otook ii
DP810 (Black)	Tough durable bonds. High impact resistance.	1:1	20,000	10 minutes	20 minutes	30	1,200	3,600	500	50mL 200mL 1 gal. pail 5 gal. pail 20 liter pail B 20 liter pail A	00-021200-49077-4 00-021200-49079-8 00-048011-56711-2 00-048011-56712-9 00-021200-49080-4 00-021200-49081-1	62-2788-143 62-2788-383 62-2788-753 62-2888-753 62-2788-873 62-2888-873
DP810 810 (Tan)	Tough durable bonds. High impact resistance.	1:1	20,000	10 minutes	20 minutes	30	1,200	3,600	500	50mL 200mL 400mL 20 liter pail B 20 liter pail A	00-021200-31310-3 00-021200-31311-0 00-021200-31312-7 00-021200-45230-7 00-021200-45233-8	62-3298-143 62-3298-383 62-3298-353 62-3298-873 62-3398-873
DP810NS 810NS (Tan)	Tough durable bonds. Non-sag.	1:1	95,000	10 minutes	20 minutes	20	1,200	4,000	500	50mL 200mL 400mL 20 liter pail B 20 liter pail A	00-021200-49082-8 00-021200-49084-2 00-021200-49083-5 00-021200-49085-9 00-021200-49086-6	62-2799-143 62-2799-383 62-2799-353 62-2799-873 62-2899-873
DP8805NS 8805NS (Green)	Low odor. Fast rate of strength build.	10:1	80,000	5 minutes	10 minutes	30	n/a	3,600	900	55 gal. drum A	00-051115-68958-1 00-051115-68959-8 00-051115-68979-6 00-051115-68984-0 00-051115-68981-9 00-051115-68980-2	62-2852-144 62-2852-363 62-2852-853 62-2852-953 62-2952-753 62-2952-853
DP8810NS 8810NS (Green)	Low odor. Fast rate of strength build.	10:1	80,000	10 minutes	20 minutes	30	n/a	3,600	800	55 gal. drum A	00-051115-68960-4 00-051115-68962-8 00-051115-68982-6 00-051115-68985-7 00-051115-68981-9 00-051115-68980-2	62-2854-144 62-2854-36: 62-2854-85: 62-2854-95: 62-2952-753 62-2952-85:
DP8825NS 8825NS (Green)	Low odor. Fast rate of strength build.	10:1	80,000	25 minutes	50 minutes	20	n/a	3,000	800	45mL 490mL 5 gal. pail 55 gal. drum 1 gal. can 5 gal. pail	00-051115-81288-0 00-051115-81289-7 00-051115-81290-3 00-051115-81291-0 00-051115-81415-0 00-051115-81414-3	62-2866-144 62-2866-36 62-2866-85 62-2866-95 62-2962-753 62-2962-85
Product (Color)	Key Features	Mix Ratio (Volume) B:A	Approximate Viscosity at 75°F (24°C) (cP)	Approximate Mixed Work Life at 75°F (24°C)	Approximate Time to Handling Strength at 75°F (24°C)	Floating Roller Peel at 75°F (24°C)	-20°F (-29°C)	rlap Shear 75°F (24°C)	150°F (66°C)	Size	UPC	Stock #
	-Weld™ Low Surface En	ergy (LS	E) Plastic A	-								
DP8005 8005 (Black)	Bonds polyolefins and low surface energy materials.	10:1	25,000	3 minutes	3 hours	9	875	2,000	475	35mL 250mL 1 gal. pail A 5 gal. pail B 5 gal. pail A 50 gal. drum B	00-051111-92166-1 00-051111-92167-8 00-021200-45171-3 00-051111-92168-5 00-021200-45172-0 00-051111-92171-5	62-2779-043 62-2779-393 62-2879-753 62-2779-853 62-2879-853 62-2779-953
DP8005 8005 (Off-White)	Bonds polyolefins and low surface energy materials.	10:1	25,000	3 minutes	3 hours	17	750	2,200	500	35mL 250mL 1 gal. pail A 5 gal. pail B	00-051111-92130-2 00-051111-92131-9 00-021200-41552-4 00-051111-92143-2	62-2786-043 62-2786-393 62-2886-753 62-2786-853
DP8010 8010 (Blue)	Bonds polyolefins and low surface energy materials.	10:1	20,000	10 minutes	1 hour	n/a	2,700	2,700	500	45mL 490mL 1 gal. cont. A 5 gal. pail B 5 gal. pail A 55 gal. drum B	00-051115-71600-3 00-051115-71601-0 00-021200-49113-9 00-051115-71669-0 00-021200-49115-3 00-051115-81460-0	62-2863-144 62-2863-36; 62-2883-75; 62-2863-85; 62-2863-95;
DP8010NS 8010NS (Blue)	Bonds polyolefins and low surface energy materials.	10:1	65,000	10 minutes	1 hour	n/a	2,700	2,700	500	45mL 490mL 1 gal. cont. A 5 gal. pail B 5 gal. pail A	00-051115-81451-8 00-051115-81453-2 00-021200-49113-9 00-051115-81454-9 00-021200-49115-3	62-2865-144 62-2865-36 62-2883-753 62-2865-85 62-2883-85

3M Industrial Adhesives and Tapes

3M™ Scotch-Weld™ Structural Adhesives (cont.)



		B: A	sity		a t	at	Over	lap Shea	r (psi)			
Product (Color)	Key Features	Mix Ratio (Volume) B:A	Approximate Viscosity at 75°F (24°C) (cP)	Approximate Mixed Work Life at 75°F (24°C)	Approximate Time ' Handling Strength (75°F (24°C)	Floating Roller Peel at 75°F (24°C)	-67°F (-55°C)	75°F (24°C)	180°F (82°C)	Size	UPC	Stock#
	-Weld™ Standard MMA	Acrylics				<u> </u>	, , ,	(_ , _ ,	(32 3)			
DP805 805 (Light Yellow)	Fast strength build. Minimal surface prep.	1:1	110,000	3 minutes	10 minutes	35	2,500	3,500	2,200	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-021200-83758-6 00-021200-87828-2 00-021200-87829-9 00-021200-87233-4 00-021200-87234-1	62-3288-14 62-3288-38 62-3288-35 62-3288-85 62-3388-85
DP807 807 (Light Yellow)	Short work life. Two-part toughened acrylic adhesive.	1:1	50,000	5 minutes	20 minutes	20	2,000	4,300	800	47mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-051115-31635-7 00-051115-31636-4 00-051115-31637-1 00-051115-31638-8 00-051115-31639-5	62-3290-14 62-3290-38 62-3290-85 62-3390-85
DP812 812 (Yellow)	Medium work life. Two-part toughened acrylic adhesive.	1:1	50,000	10 minutes	20 minutes	20	2,100	4,500	1,000	50mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-051115-31641-8 00-051115-31646-3 00-051115-31643-2 00-051115-31644-9 00-051115-31645-6	62-3292-143 62-3292-38 62-3292-35 62-3292-85 62-3392-85
DP820 (Light Yellow)	Tough durable bonds. Minimal surface prep.	1:1	55,000	15 minutes	40 minutes	20	3,100	3,150	1,900	50mL 200mL 400mL	00-021200-89347-6 00-021200-89348-3 00-021200-89349-0	62-3277-143 62-3277-383 62-3277-353
DP825 825 (White)	Long work life. Two-part toughened acrylic adhesive.	1:1	50,000	25 minutes	40 minutes	20	2,700	4,500	1,000	47mL 200mL 400mL 5 gal. pail B 5 gal. pail A	00-051115-31667-8 00-051115-31668-5 00-051115-31669-2 00-051115-31670-8 00-051115-31671-5	62-3285-143 62-3285-38 62-3285-35 62-3285-85 62-3385-85
DP8405NS 8405NS (Green)	High impact. Adhesion to most plastics.	10:1	70,000	5 minutes	15 minutes	50	n/a	4,100	900	45mL 490mL 5 gal. pail 55 gal. drum	00-051115-68963-5 00-051115-68964-2 00-051115-68986-4 00-051115-68987-1	62-2856-14- 62-2856-36 62-2856-85 62-2856-95
DP8410NS 8410NS (Green)	High impact. Adhesion to most plastics.	10:1	70,000	10 minutes	25 minutes	50	n/a	4,100	800	45mL 490mL 5 gal. pail 55 gal. drum	00-051115-70994-4 00-051115-70995-1 00-051115-70997-5 00-051115-71101-5	62-2860-14- 62-2860-36 62-2860-85 62-2860-95
DP8425NS 8425NS (Green)	High impact. Adhesion to most plastics.	10:1	70,000	25 minutes	50 minutes	50	n/a	3,700	800	45mL 490mL 5 gal. pail 55 gal. drum B	00-051115-81303-0 00-051115-81302-3 00-051115-81298-9 00-051115-81031-6	62-2862-144 62-2862-36 62-2862-85 62-2862-95
3M™ Scotch	-Weld™ Flexible Urethan	ies										
DP604NS 604NS (Black)	Flexible. Non-sag.	1:1	Paste	4 minutes	20 minutes	30	1,400	600	300	50mL 5 gal. pail B 5 gal. pail A 50 gal. drum B 50 gal. drum A	00-021200-96412-1 00-021200-96461-9 00-021200-96462-6 00-021200-96531-9 00-021200-96532-6	62-2648-85 62-2648-85 62-2748-85 62-2648-95 62-2748-95
DP640 (Brown)	Tough flexible bonds.	1:1	25,000	60 minutes	8 hours	60	3,000	2,000	400	50mL 200mL 400mL	00-021200-89543-2 00-021200-89545-6 00-021200-89544-9	62-3549-14 62-3549-38 62-3549-35
3549 (Brown)	Tough flexible bonds. Non-sag.	1:1	30,000	60 minutes	8 hours	60	3,000	2,000	400	2 oz. kit 1 qt. kit 5 gal. pail B 5 gal. pail A	00-021200-20901-7 00-021200-20902-4 00-021200-20904-8 00-021200-20942-0	62-3549-05 62-3549-64 62-3549-85 62-3649-85
DP5001 5001 (Black)	Flexible. Conveyor belt repair.	1:1	100,000	1 minute	15 minutes	n/a	n/a	600	n/a	50mL 400mL	00-021200-96414-5 00-051111-98296-9	62-3528-50 62-3528-35
DP5106 5106 (Gray)	High strength. Control joint seals.	1:1	34,000	4 minutes	40 minutes	n/a	n/a	1,100	n/a	5 gal. pail B 5 gal. pail A	00-021200-96583-8 00-021200-96584-5	62-3627-85 62-3527-95

3M™ Scotch-Weld™ Structural Adhesives (cont.)



							_						
			B:A	it,		9 #	at	Over	lap Sheai	(psi)			
	Product (Color)	Key Features	Mix Ratio (Volume) B:A	Approximate Viscosity at 75°F (24°C) (cP)	Approximate Mixed Work Life at 75°F (24°C)	Approximate Time to Handling Strength at 75°F (24°C)	Floating Roller Peel at 75°F (24°C)	-67°F (-55°C)	75°F (24°C)	180°F (82°C)	Size	UPC	Stock#
	3M™ Scotch-	Weld [™] Semi-Rigid Uret	hanes										
*	DP600 600 (Gray)	Concrete repair. Self-leveling.	1:1	6,000	1 minute	4 minutes	20	3,200	2,300	700	50mL 400mL 8.4 fl. oz. 5 gal. pail B 5 gal. pail A	00-021200-56602-8 00-051111-98303-4 00-021200-96596-8 00-021200-96574-6 00-021200-96575-3	62-2649-5030-4 62-2649-3530-5 62-2649-1233-8 62-2649-8535-9 62-2749-8535-7
	DP600NS 600NS (Gray)	Concrete repair. Non-sag.	1:1	Paste	1 minute	4 minutes	8	2,700	2,300	700	50mL 400mL	00-021200-56606-6 00-051111-98312-6	62-2652-5030-8 62-2652-3530-9
	DP601 601 (Gray)	Rigid. Self-leveling.	1:1	6,000	1 minute	4 minutes	20	3,200	2,300	700	50mL 5 gal. pail B 5 gal. pail A 50 gal. drum B 50 gal. drum A	00-021200-96410-7 00-021200-96451-0 00-021200-96452-7 00-021200-96507-4 00-021200-96508-1	62-2649-5031-2 62-2649-8530-0 62-2749-8530-8 62-2649-9530-9 62-2749-9530-7
	DP601NS 601NS (Gray)	Rigid. Non-sag.	1:1	Paste	1 minute	4 minutes	8	2,700	2,300	700	50mL	00-021200-96407-7	62-2652-5031-6
	DP605NS 605NS (Off-White)	Semi-rigid. Non-sag.	1:1	150,000	5 minutes	20 minutes	40	4,000	2,000	600	50mL 200mL 5 gal. pail B 5 gal. pail A	00-021200-82252-0 00-021200-87853-4 00-021200-82253-7 00-021200-82254-4	62-3592-1435-0 62-3592-3830-0 62-3592-8530-1 62-3692-8530-9
	DP608 608 (Black)	Flexible. Non-sag.	1:1	Paste	10 minutes	90 minutes	16	3,000	2,500	500	50mL 5 gal. pail B 5 gal. pail A 50 gal. drum B 50 gal. drum A	00-021200-96418-3 00-021200-96513-5 00-021200-96514-2 00-021200-96515-9 00-021200-96516-6	62-3268-5030-2 62-3268-8530-8 62-3368-8530-6 62-3268-9530-7 62-3368-9530-5
	DP620NS 620NS (Black)	Flexible. Non-sag.	1:1	Paste	20 minutes	4 hours	40	3,000	2,500	500	50mL 5 gal. Pail B 5 gal. Pail A 50 gal. drum B 50 gal. drum A	00-021200-96416-9 00-021200-96449-7 00-021200-96450-3 00-021200-96505-0 00-021200-96506-7	62-2645-5030-2 62-2645-8530-8 62-2745-8530-6 62-2645-9530-7 62-2745-9530-5
	3532 B/A (Brown)	Multi-purpose. Semi-rigid bonds.	1:1	30,000	10 minutes	90 minutes	25	2,500	2,000	300	2 oz. kit 1 qt. kit 5 gal. pail B 5 gal. pail A	00-021200-20878-2 00-021200-20879-9 00-021200-20881-2 00-021200-20935-2	62-3532-0515-6 62-3532-6430-2 62-3532-8515-8 62-3632-8516-4
	3535 B/A (Off-White)	Multi-purpose. Semi-rigid bonds.	1:1	30,000	3 minutes	30 minutes	25	2,500	2,000	300	2 oz. kit 1 qt. kit	00-021200-20887-4 00-021200-20888-1	62-3535-0515-9 62-3535-6430-5

DP = Duo-Pak NS = Non-Sag

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M™ Scotch-Weld™ Low Surface Energy (LSE) Plastic Acrylics

3M's Low Surface Energy Structural Acrylic Adhesives bond to low surface energy plastics such as Polypropylene (PP), Polyethylene (HDPE) and most Thermoplastic Polyolefins (TPOs), providing structural adhesive bond strength that causes the plastic material to fail before the adhesive bond.





3M™ Scotch-Weld™ Concrete Repair Adhesives

3M's Concrete Repair Urethane Adhesives repair cracks and patch holes in minutes, providing minimal disruption to your operations. Products are available for both horizontal and vertical surfaces. **DP600**



Consider these products first when evaluating adhesives for your application.

3M™ Scotch-Weld™ Structural Adhesives (cont.)

			Cure Co	onditions	at		Overlap 9	hear (psi)				
Product (Color)	Key Features	Approximate Vis- cosity at 75° F (24°C) (cP)	Time (min.)	Temperature °F (°C)	Floating Roller Peel at 75°F (24°C)	-67°F (-55°C)	75°F (24°C)	180°F (82°C)	250°F (121°C)	Size	UPC	Stock#
3M™ Scotc	h-Weld™ One-Part He	at Cured Ep	oxies									
1386 (Cream)	High temperature strength. Impact resistance.	150,000	60	350 (177)	10	3,000	5,500	4,500	2,500	1 qt. 5 gal. pail	00-021200-19917-2 00-021200-19919-6	62-1386-6525-2 62-1386-8525-0
1469 (Cream)	High temperature strength. Low viscosity.	60,000	120	350 (177)	2	3,150	3,700	3,700	3,600	1 qt. 5 gal. pail	00-021200-19949-3 00-021200-19950-9	62-1469-6525-6 62-1469-8525-4
2086 (Gray)	High temperature strength. High viscosity.	Paste	60	350 (177)	5	3,000	5,000	5,000	2,200	5 gal. pail	00-021200-20235-3	62-2086-8525-5
2214 Hi-Density (Gray)	High temperature strength. Low temperature curing.	Paste	40	250 (121)	5	3,000	4,500	4,500	1,700	6 oz. cart. 5 gal. pail	00-021200-20813-3 00-021200-20814-0	62-3414-2930-6 62-3414-8530-8
2214 Hi-Temp New Formula (Gray)	High temperature strength. Environmental resistance.	Paste	60	250 (121)	2	2,800	2,800	2,800	2,500	6 oz. cart. 5 gal. pail	00-021200-20833-1 00-021200-20835-5	62-3491-2830-6 62-3491-8530-6
2214 Hi-Temp Original (Gray)	High temperature strength. Environmental resistance.	Paste	40	250 (121)	2	2,000	2,000	3,000	2,500	6 oz. cart.	00-021200-20806-5	62-3402-2930-1
2214 Non- Metallic Filled (Cream)	High temperature strength. Higher insulation value.	Paste	40	250 (121)	7	3,000	4,000	4,500	1,500	6 oz. cart. 5 gal. pail	00-021200-20802-7 00-021200-25496-3	62-3401-0830-7 62-3401-2934-5
2214 Regular (Gray)	High temperature strength. Low temperature curing.	Paste	40	250 (121)	5	3,000	4,500	4,500	1,500	6 oz. cart. 1 quart 5 gal. pail	00-021200-20344-2 00-021200-20345-9 00-021200-23047-3	62-2214-2930-1 62-2214-6530-5 62-2214-8530-3
2290 (Amber)	Low solids liquid coating for metal laminations.	60	30	350 (177)	n/a	5,000	5,000	3,500	1,200	1 gal. cart. 5 gal. pail 54 gal. drum	00-021200-76225-3 00-021200-76227-7 00-021200-76228-4	62-3847-7530-0 62-3847-8531-7 62-3847-9530-8

Consider these products first when evaluating adhesives for your application.

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M™ Scotch-Weld™ Plastic and Rubber Instant Adhesives

The PR (Plastic & Rubber) series of products bonds to most plastics and rubbers with a range of viscosities that will fit all your application needs. PR40, PR100, PR600, PR1500, PRGel



3M[™] Scotch-Weld[™] Super Fast Instant Adhesives

The SF (Super Fast) series products are very fast setting and bond to most surfaces, including leathers and other acidic materials, making them the first choice for fast cure and material versatility.





3M[™] Scotch-Weld[™] Instant Adhesives



3M''' So	cotch-Weld™ Instant Ad	hesives			292			
Product (Color)	Key Features	Typical Viscosity (cP)	Temperature Range °F (°C)	Time to Handling (seconds)	Full Cure (hours)	Size	UPC	Stock #
Plastic and	Rubber							
PR Gel (Clear)	Fast cure. Gel viscosity for maximum gap filling.	Gel	-65 to 180 (-54 to 82)	20-60	24	20 gram tube 300 gram cart.	00-051115-25265-5 00-051115-25282-2	62-6152-0362-7 62-6152-3360-8
PR40 (Clear)	Low viscosity for close fitting plastic/rubber parts.	40	-65 to 180 (-54 to 82)	3-20	24	20 gram bottle 500 gram bottle	00-051115-25204-4 00-051115-25205-1	62-6147-0360-1 62-6147-3860-7
PR100 (Clear)	General purpose. Low viscosity plastic bonder.	100	-65 to 180 (-54 to 82)	10-30	24	20 gram bottle 500 gram bottle 500 gram bottle 2 kilo bottle	00-051115-25214-3 00-051115-25939-5 00-051115-25213-6 00-051111-07176-2	62-6164-0360-6 62-6164-3865-1 62-6164-3860-2 62-6164-6860-9
PR600 (Clear)	Medium viscosity with some gap filling for plastic/rubbers.	600	-65 to 180 (-54 to 82)	4-40	24	50mL bottle	00-051115-25241-9	62-6182-0862-3
PR1500 (Clear)	General purpose. High viscosity for gap filling.	1,500	-65 to 180 (-54 to 82)	20-60	24	200 gram bottle 500 gram bottle 500 gram bottle 2 gram tube	00-051115-25222-8 00-051115-25937-1 00-051115-25221-1 00-051115-25205-0	62-6165-0360-3 62-6165-3865-8 62-6165-3860-9 62-6137-0260-4
Surface In	tensive							
SI Gel (Clear)	Fast cure. Gel viscosity for maximum gap filling.	Gel	-65 to 180 (-54 to 82)	20-60	24	20 gram tube 300 gram cart.	00-051115-25266-2 00-051115-25284-6	62-6163-0362-4 62-6163-3360-5
SI100 (Clear)	Low viscosity for medium gaps.	100	-65 to 180 (-54 to 82)	3-20	24	200 gram bottle 3 gram tube 500 gram bottle	00-051115-25268-6 00-051115-25290-7 00-051115-25267-9	62-6176-0360-0 62-6176-0363-4 62-6176-3860-6
SI1500 (Clear)	High viscosity for gap filling.	1,500	-65 to 180 (-54 to 82)	5-60	24	50 gram bottle 500 gram bottle	00-048011-61662-9 00-051115-25245-7	62-6178-0862-1 62-6178-3860-2
Low Odor								
LO 100 (Clear)	General purpose. Low viscosity with reduced odor and blooming.	100	-65 to 180 (-54 to 82)	9-20	24	20 gram tube	00-048011-62732-8	62-6128-0360-1
LO 1000 (Clear)	General purpose. High viscosity with reduced odor and blooming, suitable for minor gap filling.	1,000	-65 to 180 (-54 to 82)	20-25	24	20 gram tube	00-051111-91664-3	62-6132-0360-3
General Pu	ırpose							
EC Gel (Clear)	Industrial strength thixotropic gel for maximum gap fill.	Gel	-65 to 180 (-54 to 82)	20-60	24	300 gram cart.	00-048011-62659-8	62-6196-3360-5
EC5 (Clear)	Very low viscosity for close fitting plastic/rubber parts. Wicking grade.	5	-65 to 180 (-54 to 82)	10-30	24	20 gram bottle 500 gram bottle	00-051115-81285-9 00-051115-81286-6	62-6192-0360-7 62-6192-3860-3
EC40 (Clear)	General purpose. Fast curing.	40	-65 to 180 (-54 to 82)	5-30	24	20 gram bottle 500 gram bottle	00-048011-62645-1 00-048011-62646-8	62-6190-0360-1 62-6190-3860-7
EC100 (Clear)	General purpose. Fast curing.	100	-65 to 180 (-54 to 82)	10-40	24	20 gram bottle 500 gram bottle	00-048011-62638-3 00-048011-62640-6	62-6188-0360-5 62-6188-3860-1
EC2500 (Clear)	Higher viscosity for porous materials and minor gap filling. Slower cure for repositionability.	2,500	-65 to 180 (-54 to 82)	20-60	24	20 gram bottle 500 gram bottle	00-048011-62642-0 00-048011-62636-9	62-6186-0360-9 62-6186-3860-5

3M Industrial Adhesives and Tapes

3M[™] Scotch-Weld[™] Instant Adhesives (cont.)

Product (Color)	Key Features	Typical Viscosity (cP)	Temperature Range °F (°C)	Time to Handling (seconds)	Full Cure (hours)	Size	UPC	Stock #
Super Fast								
SF20 (Clear)	Fast cure. Optimum performance on wide range of rubbers and plastics.	20	-65 to 180 (-54 to 82)	4-30	24	1 oz. bottle 1 lb. bottle	00-051111-91667-4 00-051115-25790-2	62-6151-0360-3 62-6151-3860-9
SF100 (Clear)	Fast cure. High strength with EPDM and other elastomers.	100	-65 to 180 (-54 to 82)	4-30	24	20 gram bottle 3 gram tube 1 lb. bottle	00-048011-62631-4 00-048011-62630-7 00-048011-62629-1	62-6174-0361-3 62-6174-0363-9 62-6174-3860-1
Rubber Tou	ughened							
RT5000B (Black)	Rubber toughened for impact resistance. High viscosity for minor gap filling.	5,000	-65 to 180 (-54 to 82)	30	24	20 gram bottle 500 gram bottle	00-051111-916650 00-051115-252006	62-6135-0360-6 62-6135-3860-2
Metal								
MC100 (Clear)	Multi-purpose metal bonder.	100	-65 to 180 (-54 to 82)	4-20	24	1 oz. bottle 1 lb. bottle	00-051111-91663-6 00-048011-62634-5	62-6130-0360-7 62-6130-3860-3
Engineered	d Grade							
CA4	Fast setting for a variety of plastics and rubbers.	150	-65 to 180 (-54 to 82)	5-40	24	2 gram tube 1 oz. bottle 1 lb. bottle	00-021200-96601-9 00-021200-96600-2 00-021200-96597-5	62-3801-0230-1 62-3801-0330-9 62-3801-3830-5
CA5	Higher viscosity, slower setting version of CA4 for filling gaps. Meets CID A-A-3097, Type II, Class 3.	2,000	-65 to 180 (-54 to 82)	12-60	24	1 oz. bottle 1 lb. bottle	00-021200-74289-7 00-021200-74288-0	62-3802-0330-7 62-3802-3830-3
CA7	Very fast setting. Excellent metal bonder. Better shock and impact resistance.	15-40	-65 to 212 (-54 to 100)	1-30	24	1 oz. bottle 1 lb. bottle	00-021200-21061-7 00-021200-21062-4	62-3812-0330-6 62-3812-3830-2
CA8	Rapid setting. Excellent adhesion to metals, plastics and rubbers. Meets CID A-A-3097, Type II, Class 2.	70-130	-65 to 180 (-54 to 82)	5-40	24	2 gram tube 1 oz. bottle 1 lb. bottle	00-021200-21065-5 00-021200-21066-2 00-021200-21067-9	62-3815-0130-3 62-3815-0330-9 62-3815-3830-5
CA9	Slower setting for parts alignment Useful for wire tracking and coil terminating Meets CID A-A3097, Type II, Class 3.	1,000- 1,700	-65 to 180 (-54 to 82)	20-70	24	1 oz. bottle 1 lb. bottle	00-021200-21068-6 00-021200-21069-3	62-3817-0330-5 62-3817-3830-1
CA40	Very fast setting. Excellent adhesion to many substrates including flexible vinyl and EPDM rubber.	20	-65 to 180 (-54 to 82)	3-20	24	1 oz. bottle 1 lb. bottle	00-021200-74290-3 00-021200-74291-0	62-3803-0330-5 62-3803-3830-1
CA40H	Higher viscosity version of CA40. Better void filling capabilities.	400-600	-65 to 212 (-54 to 100)	5-40	24	1 oz. bottle 1 lb. bottle	00-021200-21073-0 00-021200-21074-7	62-3829-0330-0 62-3829-3830-6
CA50 Gel	High-viscosity, non-sag gel. Less sensitive to acidic surfaces.	45,000 – 85,000	-65 to 212 (-54 to 100)	60 –120	24	20 gram tube 200 gram tube	00-021200-82332-9 00-021200-83737-1	62-3872-0330-0 62-3872-3630-0
CA100	High peel and impact strength. High thermal shock and heat resistance.	2,500 – 4,500	-65 to 212 (-54 to 100)	20-70	24	1 oz. bottle 1 lb. bottle	00-021200-82334-3 00-021200-82335-0	62-3873-0330-8 62-3873-3830-4

3M™ Scotch-Weld™ Instant Adhesives (cont.)

Product (Color)	Key Features	Typical Viscosity (cP)	Time to Handling (seconds)	Full Cure (hours)	Size	UPC	Stock #
Primers, A	ctivators and Debonders						
AC09	Instant adhesive activator. Non-flammable, solvent-based. California compliant.	1	1–5	24	2 fl. oz bottle 1 liter	00-051111-07795-5 00-051111-07908-9	62-6198-0860-3 62-6198-8360-6
AC77	Instant adhesive primer for bonding of difficult-to-bond plastics such as polyethylene, polypropylene and polyacetal.	< 3	1–5	24	2 fl. oz. bottle 4 liter can 55 gallon	00-048011-62728-1 00-048011-62653-6 00-048011-62654-3	62-3907-0860-0 62-3907-7560-9 62-3907-9560-7
AC79	Instant adhesive primer for bonding of difficult-to-bond elastomers such as silicone, fluoroelastomer and EPDM.	2	1–5	24	2 fl. oz. bottle 8 fl. oz. bottle 4 liter can	00-051115-31388-2 00-051115-31389-9 00-051115-31390-5	62-3916-0860-1 62-3916-3760-0 62-3916-7560-0
AC113	Instant adhesive general purpose accelerator. Will not attack plastics.	<3	1–5	24	2 fl. oz bottle 8 fl. oz bottle 1 qt. can 4 liter can	00-048011-62681-9 00-048011-62682-6 00-048011-62683-3 00-048011-62684-0	62-6194-0860-2 62-6194-3760-1 62-6194-6560-2 62-6194-7560-1
AC452	Instant adhesive acetone-based accelerator flashes off rapidly. Excellent adhesion. Overspray may attack some plastics.	< 2	1–5	24	2 fl. oz bottle 8 fl. oz bottle 12 oz. aerosol 4 liter can	00-048011-62685-7 00-048011-62686-4 00-048011-62687-1 00-048011-62689-5	62-6195-0860-9 62-6195-3760-8 62-6195-4460-4 62-6195-7560-8
Surface Activator	Clear, colorless organic-based liquid helps speed curing and prime surfaces. Comes with brush and spray pump.	< 10	1–5	24	2 fl. oz. bottle	00-021200-87937-1	62-3804-0830-2

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M[™] Scotch-Weld[™] Engineered Grade Instant Adhesives

3M™ Scotch-Weld™ Engineered Grade Instant Adhesives combine high performance, excellent adhesion and temperature resistance with the speed of instant adhesives, providing you with differentiated capabilities for your most difficult thin bond line applications. CA5, CA40, CA40H, CA50 Gel



3M™ Scotch-Weld™ Threadlockers

3M™ Scotch-Weld™
Threadlockers offer a range of products including temporary, permanent and high temperature resistance.
These adhesives conform to most industry recognized standards for torque and strength. TL42, TL62, TL71, TL90



3M Industrial Adhesives and Tapes

3M[™] Scotch-Weld[™] Anaerobic Adhesives

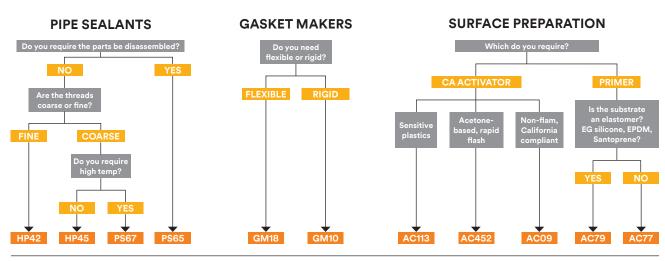


Product (Color)	Key Features	Typical Viscosity (cps)	Temperature Range °F (°C)	Time to Handling (minutes)	Full Cure (hours)	Size	UPC	Stock #
Threadloc	<u> </u>	(cha)	1 (0)	(IIIIIates)	(Hours)	Size	01 0	Stock #
TL22 (Purple)	Screwlock. Low removal torque fasteners less than a 1/4" (6mm).	1,200	-65 to 300 (-54 to 149)	< 20	24	10mL bottle 50mL bottle 250mL bottle	00-048011-62601-7 00-048011-62602-4 00-048011-62603-1	62-3493-1060-7 62-3493-5060-3 62-3493-3960-6
TL42 (Blue)	Nutlock. Medium strength. General purpose.	1,200	-65 to 300 (-54 to 149)	< 20	24	1mL pipette 10mL bottle 50mL bottle 250mL bottle 1 liter bottle	00-048011-62604-8 00-048011-62605-5 00-048011-62606-2 00-048011-62607-9 00-051115-25124-5	62-3494-0160-4 62-3494-1060-5 62-3494-5060-1 62-3494-3960-4 62-3494-8360-2
TL43 (Blue)	Oil tolerant. Medium strength. General purpose.	3,300	-65 to 300 (-54 to 149)	< 20	24	10mL bottle 50mL bottle 250mL bottle 1 liter bottle	00-051115-25138-2 00-051115-25139-9 00-051115-25140-5 00-051115-25141-2	62-3428-1060-3 62-3428-5060-9 62-3428-3960-2 62-3428-8360-0
TL62 (Red)	Studlock. High strength with controlled torque tension.	1,600	-65 to 300 (-54 to 149)	< 20	24	10mL bottle 50mL bottle 250mL bottle 1 liter bottle	00-048011-62609-3 00-048011-62610-9 00-048011-62611-6 00-051115-25132-0	62-3495-1060-2 62-3495-5060-8 62-3495-3960-1 62-3495-8360-9
TL71 (Red)	Permanent studlock for bolts and studs up to 1" (25mm).	500	-65 to 300 (-54 to 149)	< 20	24	1mL pipette 10mL bottle 50mL bottle 250mL bottle	00-051115-25125-2 00-048011-62612-3 00-048011-62613-0 00-048011-62614-7	62-3496-0160-9 62-3496-1060-0 62-3496-5060-6 62-3496-3960-9
TL72 (Red)	High temperature studlock with gap filling for larger diameter coarse threaded parts.	7,000	-65 to 450 (-54 to 232)	< 20	24	10mL bottle 50mL bottle 250mL bottle 1 liter bottle	00-051115-25133-7 00-051115-25137-5 00-051115-25135-1 00-051115-25136-8	62-3497-1060-8 62-3497-5060-4 62-3497-3960-7 62-3497-8360-5
TL77 (Red)	Heavy duty permanent for fasteners up to 1.5" (38mm) with coarse threads.	7,000	-65 to 300 (-54 to 149)	< 20	24	10mL bottle 50mL bottle 250mL bottle	00-051115-25142-9 00-051115-25143-6 00-051115-25144-3	62-3429-1060-1 62-3429-5060-7 62-3429-3960-0
TL90 (Green)	Penetrating adhesive for pre-assembled fasteners and porosity sealing of welds.	20	-65 to 300 (-54 to 149)	< 20	24	10mL bottle 50mL bottle 250mL bottle 1 liter bottle	00-048011-62615-4 00-048011-62616-1 00-048011-62617-8 00-051115-25150-4	62-3498-1060-6 62-3498-5060-2 62-3498-3960-5 62-3498-8360-3
Pipe Seala	nt							
HP42	Lock/seal medium pipe threads. Prevents vibration loosening and leaks.	500	-65 to 300 (-54 to 149)	15	24	50mL bottle 250mL bottle	00-054007-99630-9 00-054007-99631-6	62-3474-5060-3 62-3474-3950-7
HP45 (Purple)	High pressure sealant for all hydraulic and pneumatic fittings.	14,000	-65 to 300 (-54 to 149)	4 hours	24	50mL bottle 250mL bottle	00-048011-62721-2 00-048011-62722-9	62-3477-5060-6 62-3477-3960-9
PS65 (White)	General purpose for applications requiring easy disassembly.	Paste	-65 to 300 (-54 to 149)	2 hours	24	50mL tube 250mL tube 1 liter bottle	00-048011-62711-3 00-048011-62712-0 00-048011-62713-7	62-3701-5067-4 62-3701-3967-7 62-3701-8360-0
PS67 (White)	Fast curing pipe sealant for inactive surfaces such as stainless steel.	Paste	-65 to 400 (-54 to 204)	15-30	24	50mL tube 250mL tube 1 liter bottle	00-048011-62714-4 00-048011-62715-1 00-048011-62716-8	62-3478-5067-9 62-3478-3967-2 62-3478-8360-5
PS77	Lock/seal medium to coarse pipe threads. Prevents vibration, loosening and leaks.	15,000 @ 20 RPM	-65 to 300 (-54 to 149)	15	24	50mL tube 250mL tube	00-054007-99635-4 00-054007-99636-1	62-3707-5067-1 62-3707-3967-4

3M™ Scotch-Weld™ Anaerobic Adhesives (cont.)



Product (Color)	Key Features	Typical Viscosity (cps)	Temperature Range °F (°C)	Time to Handling (minutes)	Full Cure (hours)	Size	UPC	Stock #
Retaining	Compound							
RT09 (Green)	For tight tolerances and press fit augmentation.	125	-65 to 300 (-54 to 149)	10-30	24	10mL bottle 50mL bottle 250mL bottle 1 liter bottle	00-048011-62661-1 00-048011-62662-8 00-048011-62663-5 00-051115-31977-8	62-3435-1060-8 62-3435-5060-4 62-3435-3960-7 62-3435-8360-3
RT20G (Green)	For assembly of automotive/ marine cylinder liners and heat exchanger tubes.	7,000	-65 to 450 (-54 to 232)	30-40	24	10mL bottle 10/CV 10mL bottle 300/CV 50mL bottle 250mL bottle	00-048011-62664-2 00-051115-31751-4 00-048011-62665-9 00-048011-62666-6	62-3434-1060-1 62-3434-1360-5 62-3434-5060-7 62-3434-3960-0
RT38 (Green)	Fast setting, high strength for bearings, bushings or sleeves on shafts or in housings.	2,500	-65 to 300 (-54 to 149)	10 –15	24	10mL bottle 50mL bottle 250mL bottle	00-051115-81282-8 00-051115-81283-5 00-051115-81284-2	62-3460-1060-6 62-3460-5060-2 62-3460-3960-5
RT41 (Tan)	Medium strength for cylindrical parts. Easier disassembly for service and bearing re-use.	600	-65 to 300 (-54 to 149)	15-20	24	250mL bottle	00-048011-62724-3	62-3484-3960-5
RT48	High strength bonds for cylindrical parts.	600	-65 to 300 (-54 to 149)	10	24	50mL bottle 250mL bottle	00-054007-99632-3 00-054007-99633-0	62-3480-5060-0 62-3480-3950-4
Gasket Ma	aker							
GM10 (Red)	Masking or dressing gaskets in rigid assemblies. Can be screen printed. High temperature resistance.	Paste	-65 to 400 (-54 to 204)	30	24	50mL tube	00-048011-62652-9	62-3453-5067-2
GM18 (Red)	Instant flexible seal without a primer on mating aluminum flanges.	Paste	-65 to 300 (-54 to 149)	30	24	300 gram cart. 50mL tube	00-048011-62660-4 00-048011-62658-1	62-3454-3362-7 62-3454-5067-0
Activators	3							
AC649	Acetone-based green primer for inactive or very cold surfaces. 30-day part life for pre-application. California compliant.	<3	n/a	< 5	24	2 fl. oz. bottle 8 fl. oz. bottle 4 liter can	00-048011-62708-3 00-048011-62709-0 00-048011-62707-6	62-3918-0860-7 62-3918-3760-6 62-3918-7560-6



3M™ Scotch-Weld™ EPX™ Applicators and Nozzles

For low volume applications and take-it-to-the-job convenience, the 3M™ EPX™ Plus II and 3M™ EPX™ Metal manual applicators comfortably dispense any of the 3M™ Scotch-Weld™ Duo-Pak Structural Adhesives. For higher volume applications, select the 200mL manual dispenser, or the 200mL or 400mL pneumatic dispenser. For concrete repair, there are both manual or pneumatic options.





3M™ Concrete Repair Products

Fast, Convenient Crack and Spall Repair, Expansion Joints, Custom Threading and Anchoring, and More

3M™ Concrete Repair Products offer a complete line of conveniently packaged and dispensed adhesives/ sealants for every job from cracks and joints to spalls and more.

Repairs are long lasting with strong, flexible bonds that resist weathering, expansion and contraction.

Fast setting allows you and your customers to drive on repaired surfaces in as few as five minutes. You can choose non-sag or self-leveling formulations for repairs on both vertical and horizontal surfaces. Non-sag formulation facilitates step and ledge repair.



3M[™] Concrete Repair 600 self-leveling flows smoothly into cleaned cracks and gaps and hardens in as little as 5 minutes.



50mL and 12 fl. oz. duo-pak cartridges, 5-gallon pails and 55 gallon drums are available to meet your production volume requirements. Nozzle automatically and precisely meters, mixes, and dispenses two-part urethane formulation. Apply material precisely where needed to conserve material.



Make fast work of lengthy expansion or control joints and other larger jobs with the heavy-duty manual applicator and 12 fl. oz. duo-pak cartridges.



3M concrete repair formulations harden to any depth without cracking for custom threading and anchoring.

Product	Size	Description	Work Life	Initial Cure	Full Cure
DP600 Gray Self-Leveling	400mL	Repair of cracks or spalls and setting anchors in floors or horizontal surfaces.	70 sec.	5 min.	1 hr.
DP600 Gray Non-Sag 400mL Repair of cracks in walls and setting anchors in vertical surface Repair chipped or broken steps and ledges.		50 sec.	4 min.	1 hr.	
Concrete Repair 600 Gray Self-Leveling	8.4 fl. oz.	Flows smoothly into cleaned cracks and gaps. Hardens in as little as 5 minutes. Use in common caulking guns.	70 sec.	5 min.	60 min.
DP5106 Gray	400mL	Helps relieve stress in large segments of concrete floors.	6 min.	40 min.	24 hr.
Manual Dispenser 98073	400mL	Heavy-duty applicator.	n/a	n/a	n/a
Pneumatic Dispenser 87979	400mL	Applicator for high volume jobs.	n/a	n/a	n/a
Mix Tip — Higher Throughput 97331	400mL	General use tip.	n/a	n/a	n/a
Mix Tip — Longer Reach 87982	400mL	Alternative nozzle with longer reach.	n/a	n/a	n/a
Mixing Nozzle (threaded) 53382	8.4 fl. oz.	Mixes Concrete Repair 600.	n/a	n/a	n/a

3M™ Scotch-Weld™ PUR Adhesive Systems

Production Power of Dual Technologies in One Self-Contained System

With the hand-held 3M™ Scotch-Weld™ PUR Adhesive System, you have the practical benefits of two technologies in your assembly operation. This single component system combines structural adhesive benefits and hot melt adhesive speed for wood, plastic and more.

- 1. Performance benefits typical of structural adhesive technology
 - Greater than 1,000 lbs. holding strength, exceeding strength of conventional hot melt and PVA adhesives
 - Save finishing steps with the elimination of nails and other mechanical fasteners in many applications

2. Production benefits typical of hot melt adhesive technology

- Fast set and handling strength in as few as 15 seconds helps minimize or eliminate fixturing to speed assembly
- Low VOCs and 100% solids eliminate drying and ventilation equipment, and will not attack plastics
- Choice of open times and viscosities
- One-component and moisturecuring eliminates metering, mixing and curing time and equipment

Thin, flexible bond line to improve fit, appearance and durability



Two pieces of oak are edge spliced with the 3M™ Scotch-Weld™ PUR Adhesive System.



After staining, the bond line is hard to find. Look inside the circle.



The wood fails before the bond line in this test and many other applications.



Choice of viscosities and open time to match application requirements for bonding wood to wood as well as wood to other substrates.



Bond wood or plastic trim to wood cabinet doors.



Bond plastic emblem to glass without fixturing.



Bond delicate trim pieces to wood and other materials.



Bond mirrors to wood with immediate handling strength to keep assembly moving.



Adhesive bead applies neatly to countertop edging to eliminate nails and the extra work of putty and sanding.



Adhesive bonds extruded aluminum bracket to the laminate covering of a honeycomb panel.

3M™ Scotch-Weld™ PUR Adhesive Systems 🚭 🕮 🕮





Typical Applications Where Strength and Fast Production Cycles are Required

Household and Office Furnishings

- Wood or plastic decorative trim and moldings for furniture and cabinets
- Edge moldings for countertops, tables, shelving and desks
- Wood of MDF drawer bottoms, backs and facings
- Fabric and leather in furniture upholstery and trim
- Modular office wall partitions

Windows and Doors

- Interior and exterior wood and metal household door assembly
- Bond and seal wood or plastic stiles and rails in shutters
- Wood muntin bars to window glass
- Rubber insulation to wood, plastic or metal

Other Examples

- Fiberglass to wood in marine interiors
- Metal to laminated honeycomb in trade show booths
- Plastic to plastic in point of purchase retail displays

System Components

- Electrically-heated pneumatic applicator dispenses adhesive at 250°F (121°C) with the squeeze of a trigger
 - Easy to use and maintain system with unique disposable nozzle design
- Adhesives with a range of properties including adhesion in difficult-to-bond jobs such as hardwood miter corners
- Optional pre-heater to keep cartridges ready to use



Bond extruded plastic edge molding to particle board core.



3M™ Scotch-Weld™ PUR Adhesives are suitable for bonding a variety of joint types and configurations, such as this mortise and tenon.



3M™ Scotch-Weld™ PUR Adhesives

Product	Description	Viscosity @ 250°F (121°C) [CPS]	Color	Open Time ¹ (min.)	Set Time ² (sec.)	Shore D	Tensile Strength (PSI)	Elongation (%)
EZ250015	Fast set time for wood and select plastics.	7,000	White/Off-White	1.5	15	65	3,900	750
EZ250030	Fast set time for many plastics including polystyrene and polyacrylic.	13,000	White/Off-White	2	30	50	3,900	725
EZ250060	Medium set time for wood and select plastics.	7,000	White/Off-White	2	60	60	4,200	675
EZ250120	Medium set time, low viscosity and very thin bond line for wood.	3,000	White/Off-White	4	120	60	4,000	625
EZ250150	Long open and set times for wood, plastics, and material combinations such as aluminum or glass to plastics or wood.	9,000	White/Off-White	4	150	45	3,300	700
EZ250200	Long open time and low viscosity for wood, plastics and many other material combinations.	2,750	White/Off-White	3	120	30	1,625	400

^{1 -} The maximum time between the application of the adhesive and when the parts must be joined together. This information is based on 1/8-inch bead and non-metallic substrates at

Shelf Life

For cartridge and 2K foil packs, 12 months is the maximum amount of time an end-user has to use the product while stored within the conditions recommended by 3M.

^{2 -} Also known as fixturing/clamping time. The minimum amount of time required for the adhesive to solidify and hold the parts together (able to support a tensile load of 5 psi).

3M™ Scotch-Weld™ PUR Adhesive Systems 🕒 😉 💷 💷



Product	Description	Viscosity @ 250°F (121°C) [CPS]	Color(s)	Open Time¹ (min.)	Set Time ² (sec.)	Shore D	Tensile Strength (PSI)	Elongation (%)
TE015	Extrudable with very fast set time. Bond wood and selected plastics.	7,000	White/Off-White	1.5	15	65	3,950	750
TE030	Extrudable with fast set time. Bond wood and selected plastics.	16,000	White/Off-White	1	30	60	3,800	725
TE031	Extrudable with fast set time. Bond a wide variety of plastics, including polystyrene and polyacrylic.	13,000	White/Off-White, Black	2	30	50	3,900	725
TE040	Extrudable with fast set time. Low viscosity. Strong, flexible bonds. Bond plastics, wood, aluminum and glass.	7,000	White/Off-White, Black	2	40	35	2,750	860
TE100	Extrudable with medium set time. Bond wood and selected plastics. Thin bond lines.	7,000	White/Off-White, Black	2	60	61	4,200	675
TE200	Extrudable with fast set time. Low viscosity. Bond wood and selected plastics. Thin bond lines.	3,000	White/Off-White	4	125	60	4,000	625
TS230	Sprayable/extrudable with long set time. Bond variety of plastics, including polystyrene and polyacrylic. Bond aluminum and glass to plastic and wood.	9,000	White/Off-White, Black	4	150	45	3,300	700
TS115 HGS	Sprayable/extrudable/roll coatable with fast set time. Bond wood, FRP, other plastics to themselves, metal and glass.	16,000	White/Off-White	10	60	47	3,200	600

^{1 -} The maximum time between the application of the adhesive and when the parts must be joined together. This information is based on 1/8-inch bead and non-metallic substrates at 75°F (20°C)



Application-Matched Tips*

- A) 0.090" tip for medium flow applications
- B) 0.072" extension tip for improved sight line in hard-to-reach areas
- C) 0.062" tip for low flow applications
- D) 0.125" tip for high flow application
- E) Threaded cap for sealing tip after use
- F) PUR Applicator Valve Assembly to be used with applicator tips and cap



Benchmount System

Foot pedal activation for hands-free operation of 3M™ Scotch-Weld™ PUR Easy 250 Applicator.



Container Sizes to Meet Your Production Volume

- 10 fl.oz. cartridges
- 2k foil packs
- 5 gallon pail
- 55 gallon drum

^{2 -} Also known as fixturing/clamping time. The minimum amount of time required for the adhesive to solidify and hold the parts together (able to support a tensile load of 5 psi).

^{*}For use with optional main nozzle assembly system (UPC: 021200-89514)

3M™ Hot Melt Spray Adhesives 😂 222



Immediate Bonding of Foam and Other **Lightweight Materials**

3M™ Hot Melt Spray Adhesive is a fast, effective alternative to solventbased adhesives for bonding most foams, fabrics, plastics, wood and light-gauge metals. Applications range from furniture cushions to foam inserts, modular office panels to gym floor pads, and more. You simply spray a controlled pattern of 100% solids adhesive right where you want it. Apply to one or both surfaces and bond substrates immediately.

Other features include:

- Up to 10-minute open time for handling convenience and bonding larger areas
- Available in two colors to easily identify spray pattern*
- Bulk format adhesives for ease of use in most delivery systems



Can bond multiple substrates, large surface areas with 1 or 2 surface applications.



In display cases for jewelry and other retail items, foam is bonded to foam and fabric. Low temperature spray will not damage heat-sensitive substrates.



In carrying case assembly, 3M™ Hot Melt Spray Adhesive bonds foam to foam, plywood, metal or plastic.

Adhesives Characteristics and Suggested Coverage

Product Characteristics	6111	6111 HT/6111 HT Blue	6116
Description	Standard Product	Higher Heat Resistance	Low Viscosity
Color	Tan	Tan/Blue	White
Open Time ¹ One Surface (Foam/PVC)	1 min.	3 min.	2 min.
Open Time ¹ Two Surface (Foam/Foam)	6 min.	8 min.	6 min.
Heat Resistance ²	145°F (63°C)	175°F (79°C)	160°F (71°C)
Peel Adhesion ³ (PIW)			
Fir	34.4	25.6	21.4
ABS	12.1	16.5	20.3
Polypropylene	46.3	14.4	16.4
PVC	9.9	16.3	n/a
Cold Rolled Steel	16.5	29.9	20.4
High Density Polyethylene	8.2	2.3	n/a

Typical Coverage	Smooth Surface	Textured Surface
Two Surface Applications	1–2 grams per square foot	2–3 grams per square foot
One Surface Application	3–5 grams per square foot	5–7 grams per square foot

- 1 Bonds were made by spraying adhesive onto 3/4 in. thick, 2 lb. density polyester urethane foam. Open time will vary depending on substrate.
- 2 Tested per 3M IATD test method C-3093 using 2 lb. dead load.
- 3 According to 3M IATD test method C-3012. 180° peel strength was determined at a cross head speed of 2 inches/minute at 73°F (23°C).

^{*}See chart below.

3M™ Hot Melt Adhesives and Applicators

The 3M Systems Approach to Help You Improve Productivity and Lower Costs

3M™ Hot Melt Adhesives and Applicators are advanced handheld systems to help you improve productivity, lower cost and minimize waste.

Adhesives are 100% solids thermoplastic resins that become fluid when heated and quickly wet the bonding surface. They cool, harden and reach bond strength in seconds. You can move assemblies immediately to keep production flowing. This helps eliminate clamps, fixturing and drying, and saves time, energy and space.

Each adhesive is designed and precisely manufactured for efficient use in one of the portable 3M™ Hot Melt Applicators. Bonds wood, plastic, foam, fabric, cardboard and more.



3M[™] Hot Melt Applicator LT with 3M[™] Hot Melt Adhesive 3762LM low temperature (265°F/129°C) adhesive effectively bonds heat-sensitive substrates such as styrene foam to itself, corrugated or other surfaces without damaging the foam.



For bonding the guide to a drawer bottom, 3M™ Hot Melt Adhesive 3792 provides high delivery rate and long bonding range.



For sample and display boards, attach wood flooring, laminates, foams, fabrics or other materials and small products with 3M™ Hot Melt Adhesive 3792.



For economical package sealing, 3M[™] Hot Melt Adhesive 3762 is a versatile formulation with a bonding range for production speed. Variety of tips for package types.



To help with sound dampening on drawer bottoms, use 3M™ Hot Melt Adhesive 3792.



3M[™] Hot Melt Applicator LT and 3M[™] Hot Melt Adhesive 3792LM applied at low temperature (265°F/129°C) make quick work of welting, gimping, and bonding fabric to wood.



For versatility in P.O.P. assembly, 3M™ Hot Melt Adhesive 3792 bonds a variety of plastics, woods and light gauge metals.

Selecting a 3M™ Hot-Melt Applicator to Fit Your Needs



3M™ Hot Melt Applicator LT. Low-medium volume using low melt adhesive. UPC# 021200-82245



3M™ Hot Melt Applicator LT with Quadrack™ Converter. Medium volume using low melt adhesive. UPC# 021200-89447



3M™ Pneumatic Hot Melt Applicator PG II LT with Speedloader. High volume using low melt adhesive. UPC# 021200-89395



3M™ Hot Melt Applicator AE II LT. Low volume

using low melt adhesive. UPC# 051115-25567



3M™ Hot Melt Applicator TC. Low-medium volume. UPC# 021200-82244



3M™ Hot Melt Applicator TC with Quadrack™ Converter. Medium volume. UPC# 021200-89445



3M™ Pneumatic Hot Melt Applicator PG II with Speedloader. High volume. UPC# 021200-22033

3M™ Hot Melt Applicator AE II. Low volume. UPC# 021200-96594



3M™ Hot Melt Applicators

Product	Weight ¹	Output ² (lb/hr)	Temperature ³ °F (°C)	Power (120V)	Adhesive Dia. x L (in.)	Features	Warranty (Months)
Low Melt Applicators							
A LT	10.0 oz.	2.6	265 (129)	150W	5/8 × 2 TC	For use with low melt adhesives.	12
B LT with Quadrack Converter	13.8 oz.	2.6	265 (129)	150W	5/8 × 8 Q	For use with low melt adhesives.	12
O Pneumatic PG II LT with Speedloader	4.3 lbs.	6.0	265 (129)	500W	1 × 3 PG	Pneumatic high output for low melt adhesives.	
D AE II LT	20.0 oz.	4.0	265 (129)	100W	1/2 × 12 AE	All electric operation for low melt adhesives.	
Hot Melt Applicators							
ТС	10.0 oz.	3.5	385 (196)	150W	5/8 × 2 TC	Easy to use with standard melt adhesives.	12
D TC with Quadrack Converter	13.8 oz.	3.5	385 (196)	150W	5/8 × 8 Q	Easy to use with standard melt adhesives.	12
Pneumatic PG II with Speedloader	4.3 lbs.	7.5	385 (196)	500W	1 × 3 PG	Pneumatic high output for standard melt adhesives.	12
1 AE II	20.0 oz.	4.0	400 (204)	100W	1/2 × 10 AE 1/2 × 12 AE	All alactric operation for standard malt adhesives	
Variable Applicators							
() EC	24.0 oz.	5.5	260-450 (127-232)	350W	5/8 × 8 Q	Temperature modules to operate with standard and low melt adhesives.	12

- 1 Weight shown is for applicator only; does not include adhesive capacity.
- $2- \\ Adhesive output will vary with conditions and the adhesive used. \\ Values are approximate and are based on maximum steady-state flow.$
- 3 Temperatures shown are nominal control values. Actual temperature will range slightly above and below this value.

Accessories to Improve Your Productivity

Product	Description	UPC	SN
9725	.072" Mini Extension Tip	021200-21786	62-9725-9930-2
9726	"T" Tip Assembly	021200-64542	62-9726-9930-0
9727	"L" Tip with Adapter	021200-64543	62-9727-9930-8
9785	.07" Tapered Aluminum Extension (all applicators)	021200-82554	62-9785-9930-6
9913	2-hole Spreader	021200-21830	62-9913-9930-4
9916	3-hole Spreader	021200-21836	62-9916-9930-7
9917	3-hole 1" Spreader	021200-21837	62-9917-9930-5
9921	.090" Fluted Tip	021200-21840	62-9921-0066-9
9922	.063" Fluted Tip	021200-21841	62-9922-0066-7
9929	High Viscosity Valve (TC, EC, PG II)	021200-64840	62-9729-9930-4
9940	.125" Fluted Tip	021200-22036	62-9940-6920-1
9946	.072" Brass Extension (PG II, PG II LT)	021200-22040	62-9946-6980-2
Heavy-Duty	For use with PG II and PG II LT	021200-22039	62-9945-9930-6
Benchstand	For use with EC, TC and LT	021200-82418	62-9945-9935-5
Bench Mount	Includes bench nozzle assembly (Does not include applicator)	021200-82277	62-9276-9930-6
Bench Nozzle Assembly	For use with bench mounted applicator	021200-21713	62-9233-2781-1
Foot Pedal Assembly	For use with bench mounted applicator	021200-82278	62-9277-9930-4
TC and LT Palm Trigger	For use with Quadrack converter	021200-82701	62-9761-9930-7
Quadrack Converter	To add Quadrack capability to TC and LT applicators	021200-83536	62-9275-9935-7
Valve Assembly Kit	Nozzle and valve replacement for TC, EC, LT	021200-21714	62-9234-9930-5



A general purpose tip (.090) is supplied with each 3M" Hot Melt Applicator. To increase productivity, optional tips can provide multiple beads, flat ribbons, guided beads for carton sealing and extended reach.



Heavy-Duty Benchstands provide added convenience.



Foot pedal, magazine feeder and benchmount accessories can provide high capacity, hands-free operation for 3M" Hot Melt PG II and PG II LT Applicators.











Product	Color	FDA Listed ¹	UL 94 Listing	Features/Application Ideas
Low Melt Techno	1			
3750LM	Tan	_	n/a	Excellent "hot tack", fast setting for corrugated, beadboard, repack, recoup. Economical, general purpose. Use with AE II LT applicator only.
3762LM*	Light Amber	Yes	n/a	Excellent "hot tack", fast setting for corrugated, beadboard, recouperage, repacking chipboard and wood. Economical, general purpose. Use with low melt applicator only.
3776LM	Tan	_	n/a	Bonds variety of plastics, woods and light-gauge metals. Use with low melt applicator only.
3792LM*	Clear	Yes	V2	Clear, multi-purpose for wood, coated paper, polyolefins and other heat-sensitive materials. P.O.P. displays. Use with low melt applicator only.
3798LM*	Light Yellow	Yes	n/a	Removable "gummy glue" for many substrates. Removes easily without residual tack. Use with low melt applicator only.
Hot Melt Technol	ogy: Applied	350-385°F (17	77-196°C)	
3731*	Tan	_	n/a	High heat resistance. Bonds plastics including polyethylene, polypropylene.
3738*	Tan	Yes	V2	High delivery rate and long bonding range. General purpose for foundry sand cores, wood bonding, corrugated, selected plastics and chipboard.
3747	Tan	Yes	n/a	General purpose for wide variety of plastics, wood and lightweight metals.
3748*	Off-White	Yes	V2	Good thermal shock resistance. Non-corrosive to copper for many electronic applications. Bonds polyolefins.
3748 VO	Light Yellow	_	VO	Self-extinguishing version of 3748. Meets UL 1410 requirements.
3750	Tan	_	n/a	Low viscosity for high flow rate, increased production. Good hot tack, quick grab for packaging and woodworking.
3750	Clear	_	n/a	Low viscosity for high flow rate, increased production. Good hot tack, quick grab for packaging and woodworking.
3762	Tan	Yes	V2	Excellent "hot tack", fast setting for corrugated, beadboard, recouperage, repacking chipboard and wood. Economical, general purpose.
3764*	Clear	Yes	V2	Bonds variety of plastics including polycarbonate, polyethylene, and polypropylene. Flexible at low temperatures.
3779*	Amber	Yes	n/a	High heat resistance. High strength. Good fuel and oil resistance. Electronics.
3789*	Brown	Yes	V2	High performance for plastics. Impact resistant. Bonds vinyl and wood. Good fuel and oil resistance.
3792*	Clear	Yes	V2	Clear, multi-purpose for wood, corrugated, fabric, furniture, upholstery, novelties, and other lightweight materials.
3797	Off-White	Yes	V2	High ball and ring. Low viscosity. Good for electrical potting.
Bulk Only				
3794 Hi Tack PSA	Light Tan	Yes	n/a	Sprayable high tack PSA for bonding plastic, paper, metals, die-cut labels.
6111	Tan	_	n/a	Sprayable 100% solventless adhesive for most foams, fabrics, plastics, particle board and thin metal.
6111HT	Tan, Blue	_	n/a	Similar to 6111 but has higher heat resistance. Available in tan and blue.
6116	Off-White	_	n/a	Similar to 6111 but lower than normal viscosity and mainly used on fabrics.

- 1 Made from components listed as indirect food additives under FDA regulations for adhesives (21 CFR 175.105)
- 2 Brookfield Thermosel Viscometer in Centipoise
- 4 Highest temperature that the adhesive will support a 2 psi dead load
- 5 Canvas to Douglas Fir
- 6 Douglas Fir to Douglas Fir
- 7-1/8" semicircular bead, Douglas Fir to Douglas Fir

Sizes	EC Temp Control Modules	Viscosity CPS ²	Delivery Time for 1" x 3" Cartridge (sec.)	Ball & Ring Melt Point ³ °F (°C)	Heat Resistance ⁴ °F (°C)	Peel Strength PIW ⁵ 72°F (22°C)	Shear Strength PSI ⁶ 72°F (22°C)	Open Time 1/8" Bead ⁷ (sec.)
1/2" x 12" AE	n/a	4,000 @ 250°F	45	200 (95)	128 (54)	6	475	25
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG 1/2" x 12"	1	4,000 @ 250°F	45	205 (96)	130 (54)	6	480	25
5/8" x 8" Q 1/2" x 12" 1" x 3" PG	1	8,250 @ 250°F	47	184 (84)	140 (60)	9	600	40
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG 1/2" x 12"	1	10,500 @ 250°F	57	178 (81)	140 (60)	13	350	40
5/8" x 2" TC	n/a	9,500 @ 250°F	n/a	191 (88)	120 (49)	n/a	n/a	30
5/8" x 8" Q 1" x 3" PG	5	12,000 @ 375°F	n/a	315 (157)	265 (130)	22	490	30
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG 1/2" x 12" AE	4	2,875 @ 375°F	35	186 (86)	130 (54)	13	375	50
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG 1/2" x 12" AE	4	4,100 @ 375°F	45	220 (104)	145 (63)	20	430	45
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG	4	5,000 @ 375°F	65	292 (144)	175 (79)	18	250	45
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG	4	5,000 @ 375°F	65	305 (152)	175 (79)	15	275	30
1/2" x 12" AE	n/a	1,900 @ 375°F	30-40	200 (93)	125 (52)	6	500	n/a
1/2" x 10" AE	n/a	4,800 @ 375°F	35-45	178 (81)	135 (57)	12	250	n/a
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG 1/2" x 12" AE	3	1,870 @ 375°F	30	201 (94)	130 (54)	7	545	35
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG 1/2" x 12" AE	4	6,000 @ 375°F	55	190 (88)	140 (60)	14	390	40
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG	5	7,000 @ 375°F	75	325 (163)	300 (149)	18	700	25
5/8" x 8" Q 1" x 3" PG	5	5,200 @ 375°F	70	270 (132)	220 (104)	16	570	50
5/8" x 8" Q 5/8" x 2" TC 1" x 3" PG 1/2" x 12" AE	4	5,000 @ 375°F	45	179 (81)	140 (60)	13	250	50
1" x 3" PG 5/8" x 2" TC	n/a	2,650 @ 375°F	55	304 (151)	170 (77)	10	350	30
Bulk pillows	n/a	15,000 @ 325°F	n/a	224 (107)	120 (49)	16	n/a	> 60
.75" x.75" chips	n/a	3,000- 5,000 @ 375°F	n/a	224 (107)	145 (63)	34	n/a	1 surface: 60 2 surface: 360
.75" x.75" chips	n/a	2,500- 4,500 @ 375°F	n/a	284 (140)	175 (79)	26	n/a	1 surface: 180 2 surface: 480
.75" x.75" chips	n/a	1,300 @ 375°F	n/a	199 (93)	160 (69)	20	n/a	1 surface: 120 2 surface: 300

Solvent and Water Based Adhesives

Unite Performance, Productivity and Sustainability

3M™ Solvent and Water Based Adhesives start with the customer. Their process, their requirements and their wishes. Then the 3M team of industry experts, in conjunction with our comprehensive technology portfolio, offers customers versatility, efficiency and confidence to answer their "what if?"



Performance

Find the RIGHT product for your assembly with the RIGHT questions:

- What substrates are being bonded?
- What are the issues with your current product?
- Are there any environmental Health and Safety requirements?
- Are there specific product attributes needed?
- Are there specific manufacturing requirements?
- What is the size of the substrate being sprayed?

Sustainability

Low Emissions. High Standards.



Going "green" does not mean that you have to give up on performance. For 40 years our engineers have been developing water-based, low VOC and GREENGUARD™ Certified adhesives that have been used in the most demanding applications.

So, are you ready to go "green?" We're ready to take you there.





Productivity

Our goal is to make your business as efficient and effective as possible. How the adhesive gets to your assembly is equally as important as the adhesive itself. We work with you to integrate the best delivery system for your process.



Cylinders

- Self-contained and pressurized
- Portable
- Minimal equipment investment
- Low maintenance
- Optimized spray pattern cuts waste and maximizes coverage



Aerosols

- Convenient for smaller jobs or multiple stations
- Easy to use and no equipment



Bulk

- Cost effective
- Integrate into existing equipment

Multipurpose Adhesives — Solvent and Water Based

Insulation, Light Fabrics, Cardboard and Other Light Duty Bonding

Those working with HVAC, General Industrial, Signage, Exhibit/P.O.P. and packaging can effectively bond insulation, light fabrics, cardboard and paper with these versatile adhesives.

- Insulation attachment (polystyrene*, fiber glass, foam, etc.)
- General assembly
- Temporary holding (third hand)
- P.O.P. displays
- Carton sealing, palletizing and label attachment

^{*}Not all products are compatible with polystyrene





3M multipurpose adhesives are commonly used for installation of shoddy material, venting insulation and other foams and fabrics. Our product line offers the most versatility for adhesive delivery. 3M[™] Super 77[™] Multipurpose Spray Adhesive, for example, can be sprayed from bulk containers, cylinders or aerosol cans.



When thinking insulation, don't stop at heating and ventilation. In this application, our adhesives can be used for installation of foam for acoustical soundproofing.







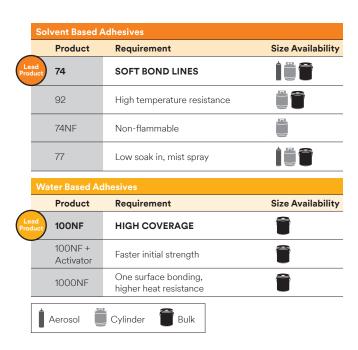
The variety of applications for these multi-purpose adhesives is nearly endless. From adhering pool table felt, to building architectural models, and even bonding protective materials like dense foams into electronics, musical instrument or sensitive equipment cases. 3M has a spray adhesive solution to fit customers' needs.

Foam and Fabric Adhesives — Solvent and Water Based

Upholstery and Furniture

Users in the furniture manufacturing, upholstery, or transportation industry can rely on these adhesives to permanently bond open cell foam, closed cell foam and fabrics in a variety applications.

- Upholstered furniture and seating
- Headliners
- Office partitions
- General foam bonding





Foam and fabric applications can be very challenging. From soft bond lines to tight radiuses, our lineup can meet the demand. The 3M portfolio of water and solvent based adhesives truly give the customer "flexibility."



Aerosol adhesives provide either web or mist spray patterns with higher solid content than our competitors. This combination allows 3M adhesives to sit on the surface versus soaking in. More adhesive on the surface results in less adhesive usage and a better bond for the customer.



These solvent and water based adhesives are often used as a "third hand" to hold lightweight materials in place until they can be sewn or held in place by other assembly methods.

Woodworking and Large Surface Lamination — **Solvent and Water Based**

Wood, Metal and Rubber Flooring

Woodworking, transportation, construction, and general industrial markets can effectively bond metals, wood, rubber, carpet and flooring (vinyl tiles) with this line of adhesives. Some applications include transportation flooring and carpet, store fixtures and furniture.

- High pressure laminate (HPL) Edge banding
 - Countertops
 - Furniture
 - Display fixtures
- Specialty vehicle flooring
- Wood furniture
- Trade show displays



Marine and specialty vehicle applications, like installing carpet, rubber or synthetic flooring, are perfect for 3M sprayable adhesives. Our quick tack, low VOC and cylinder delivery are common benefits in this market.



1099	harsh environments	
Water Based Ad	dhesives	
Product	Requirement	Size Availability
30NF	HIGH STRENGTH	ð
2000NF	Faster initial strength	
1000NF	One surface bonding, fast assembly, plasticizer resistance	ð
Aerosol	Cylinder Bulk	



Consider trade show exhibits and store fixtures that are often updated several times a year. 3M's adhesive line offers very low cost per square foot bonded for applications where our customers value total applied cost.





3M" Hi-Strength 90 Spray Adhesive has a long reputation of holding strong in critical applications like this edge banding strip. Also, 3M has multiple adhesives that are postformable. Postforming is where the laminate is heated and bent as much as 360° around a radius.

High Performance Specialty Adhesives — Solvent and Water Based

Rubber and Plastic

Industrial, Automotive, and Military professionals can rely on these adhesives to effectively bond rubber, plastics and specialty composites.

- Sealing and gasketing
- Chemical resistance
- Unique environments
- Harsh environments
 - MIL specs
 - Chemical resistance



In washing machine repair, 3M™ Neoprene High Performance Rubber and Gasket Adhesive 1300 bonds with high immediate strength and seals the doughnut ring seal in the outer tub.









Rubber and Gasket Adhesive 847 bonds and seals chemical drum gaskets in place.



Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

Aerosol

3M™ Cleaners and Lubricants

Convenience and a Fistful of Work Power for Maintenance and Production

In thousands of factories and plants, these aerosol chemicals are proven daily to save time and effort in maintenance and production. Lubricating, cleaning, inhibiting rust, and other tough jobs become finger-touch easy.

Compact container fits in a tool box to go readily to any job site and can help you reduce storage space and cost. With targeted application you get more usable product for your money.

3M aerosol chemicals contain no methylene chloride, chlorofluorocarbons (CFCs) or 1,1,1-trichlorethane (methyl chloroform).





3M[™] Silicone Spray Low VOC 60% lubricates cutting tools and tables. Fast, easy application helps prevent buildup of adhesive, wax, inks and paints. Won't stain or become gummy.



For fast, easy cleanup of gears, 3M™ Citrus Base Cleaner helps soften and loosen grease, oil and grime. After using this heavy-duty degreaser/ cleaner, just wipe away with a shop towel.



Freeing rusted nuts, bolts and frozen threaded parts are only a few of the many applications for 3M™ 5-Way Penetrant.

3M™ Aerosol Chemicals

Product	Key Characteristics	Available Format	Color	Application Method	Spray Pattern	VOC Content
		1 gallon, 5 gallon, 52 gallon	Pale Yellow	Brush/Roll/Spray	Mist	840g/L
Adhesive Remover	Citrus based. Fast acting.	5 oz. Aerosol	Pale Yellow	Spray	Mist	100%
Adhesive Remover	No residue left behind.	18.5 oz. Aerosol	Pale Yellow	Spray	Mist	100%
		Mini Cylinder	Pale Yellow	Spray	Mist	800g/L
Adhesive Remover — Low VOC <20% Clear	Extended dwell time. No residual film. Meets CARB/OTC VOC Requirements. Helps contribute to LEED® credits.	Aerosol	Clear	Spray	Mist	15%
Citrus Base Cleaner	Citrus based. Non-corrosive. Cleans oil, grease, tar and grime.	Aerosol	Transparent	Spray	Mist	91%
Silicone Spray 60% VOC	Excellent lubricant. Fast drying. Long lasting and non-staining.	Aerosol	Clear	Spray	Mist	60%
5-Way Penetrant	Drives out moisture. Frees rusted bolts. Inhibits rust — lubricates, demoisturizes, inhibits corrosion, cleans and penetrates.	Aerosol	Amber	Spray	Mist	30%
Silicone Lubricant	Excellent lubricant. Fast Drying. Long-lasting and non-staining.	Aerosol	Clear	Spray	Mist	95%

3M™ Cylinder Spray Adhesives

Efficient, Portable and Easy to Use

3M Cylinder Spray Adhesives have benefits over more traditional spray methods. Minimal startup costs, reduced downtime, simple hose and applicator setup make cylinders an obvious choice.

Whether your priorities are improving speed of application, making spraying easier or reducing capital equipment maintenance and other costs, 3M Cylinder Spray Adhesives get you there.

Advantages and benefits:

- Very efficient speed of application and reduction of overspray
- Convenient, portable and easy to use delivery system
- Maintenance free and very low equipment costs

Other benefits include:

- More efficient spraying over large surface areas or multiple parts means virtually all adhesive is used and very little is wasted
- Easy to learn, use and train new employees to spray
- Portable for easy transition and setup for multiple stations or field work

Key features include:

- High coverage
- Various spray patterns
- Non-flammable adhesives
- GREENGUARD™ Certified
- Range of open time (worklife)







Where to Start

Product Selection

The lead products for 3M™ Cylinder Adhesives are:

- 3M™ Postforming 94 CA Cylinder Spray Adhesive
- 3M™ Hi-Strength 94 ET Cylinder Spray Adhesive
- 3M™ Holdfast 70 Cylinder Spray Adhesive

The majority of applications can be done with these three cylinder products.



3M™ Postforming 94 CA Cylinder Spray Adhesive is a low telegraphing that dries quickly to reach postformable strength in 1-5 minutes. A 1-15 minute open time provides flexibility in assembly speed. 3M™ Hi-Strength 94 ET Cylinder Spray Adhesive offers all the benefits of 3M™ Postforming 94 CA Cylinder Spray Adhesive, but delivers a higher tack and increased bonding range.



For fast, easy foam board installation, above and below grade, simply spray and stick with 3M™ HoldFast 70 Cylinder Spray Adhesive. Bonds foam to concrete, waterproofing, OSB and more without damaging the foam.

Adhesives and various spray tips.

Save Yourself the Hassle of Inefficient Spraying

Most common applications:

- High pressure laminate
- Foam/paper core steel door
- Upholstery
- Metal lamination
- Insulation bonding

Where to find these applications:

- Cabinet shops
- Elevator interiors
- Countertop shops
- Exhibit manufacturing
- Fixture/display manufacturing
- Office furniture
- Theatre/production sets
- Acoustic panel/partition



3M[™] Cylinder Spray Adhesives do not atomize spray patterns with added airline. This means you get consistent even spray patterns, potentially saving rework and cleanup.



Consistent spray patterns and portable cylinders mean you can realize big improvements in efficiency and save time and labor costs.

3M™ Cylinder Spray Adhesive Quick Reference Guide

Product	Application	Solids (%)	Solids — Bulk (%)	VOCs (g/L)	Open Time (min)	Spray Pattern	Spray Applicator	Recommended Tips		
General P	urpose									
60 CA	General Purpose	43	42	>80	2-60	Web	Applicator	9501, 6501		
Specialty	Specialty									
70	Construction, Marine, RV, Polystyrene	21	41	544	1-60	Web	Applicator	QSS tip		
74	Foam Bonding	22	36	563	1–15	Web	Applicator	9501, 6501		
74NF	Foam Bonding	22	28	248	1-60	Web	Applicator	9501, 6501		
77	Multi-Purpose	27	36	534	1-30	Mist	Applicator	250050, 650050		
78 ET	Polystyrene	17	31	570	1-60	Web	Applicator	9501, 6501		
High Perfo	ormance, High To	emperat	ure Laminat	ing						
90	Laminating	13	23	571	1–15	Web	Applicator	9501, 6501, 250050		
92	Laminating	23	34	654	1-20	Web	Applicator	9501, 6501, 250050		
94 CA	Laminating	28	28	79	1–15	Pebble	Applicator H	4001, 6501		
94 ET	Laminating	28	34	<80	1-60	Pebble	Applicator H	9501, 6501, 4001		
98NF	Laminating	20	25	254	1-60	Web	Applicator	9501, 6501, 4001		

Key Questions

Asking the right questions related to the application will help you arrive at an adhesive selection quickly and painlessly.

Use A.S.P.E.C.

- What is the **APPLICATION** you are currently using the adhesive for?
- What SUBSTRATES does the adhesive need to bond too?
- Are there special **PROCESS** details the adhesive needs to accommodate? Such as high temperatures or VOC regulations?
- What kinds of END USE stress or environment will the bond be subject to? (e.g. boat carpet and saltwater conditions or exterior applications).
- How do you determine the VALUE beyond simply the COST of a product? (e.g. Improved coverage, reduced flammability or speed of application).

3M™ Cylinder Spray Adhesive Equipment and Accessories











Spray Tip 9501 95° Wide 6501 65° Medium 4001 40° Narrow QSS* Very Wide 250050 25° Very Narrow Medium 650050 65°

*For 3M™ HoldFast 70 Spray Adhesive





Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

T-Fitting



		Solids Weight	
Product	Available Format	Percent (Approx.)	Key Characteristics
Solvent Based Adhesives			
Neoprene Contact 5	5 gallon, 53 gallon	19%	High performance contact adhesive. Sprayable. Fast drying.
Neoprene Contact 10	1 qt, 1 gallon, 5 gallon, 54 gallon	23%	Brushable and rollable with higher coverage. Meets requirements of MMM-A-121, MMM-A-130B and A-A-1936A.
Heavy Duty 20	Aerosol	17%	Fast grab. Variable width spray pattern. Forms strong bonds to a variety of substrates.
Foam & Fabric 24	Aerosol	17%	Aggressive tack. Foam-tearing strength. Variable width lace spray pattern.
Multi-Purpose 27	Aerosol	21%	Fast tack. Lightweight applications. Mist spray pattern.
0 10 0004	5 gallon, 54 gallon	43%	
General Purpose 60 CA	Large, Int and Jumbo Cylinder	42%	High solids for increased coverage. High tack general purpose adhesive.
	5 gallon, 52 gallon	26%	Extremely versatile and very fast tacking. Unique wide web spray pattern with
HoldFast 70	Large, Int and Jumbo Cylinder	21%	heavy body and low soak-in. Bonds polystyrene without degrading surface.
Pressure Sensitive 72	Aerosol	15%	Permanently tacky and repositionable. Long open time. Variable width lace spray pattern.
	Aerosol	22%	
Foam Fast 74	52 gallon	36%	Extremely fast tack. Soft non-dimpling glue line. Immediate foam tearing strength.
	Large, Int and Jumbo Cylinder	22%	
Foam Fast 74 CA (Low VOC)	Aerosol	23%	Extremely fast tack. Soft non-dimpling glue line. Immediate foam tearing strength.
Repositionable 75	Aerosol	9%	Adheres in seconds. Extra long tack range. Repositionable.
Hi-Tack 76	Aerosol	13.5%	Fast tacking. One surface bonds. Variable width lace spray pattern.
	Aerosol	25%	
Super 77™	5 gallon, 52 gallon	36%	Low soak-in for long lasting bond. High coverage and aggressive tack. Bonds quickly in 15 seconds.
	Large Cylinder	27%	
Super 77 [™] CA Multi-Purpose (Low VOC)	Aerosol	19%	Aggressive tack. Quick bonding. Long bonding range.
Palvaturana 70	5 gallon	19%	Bonds polystyrene with no surface degradation. Fast grabbing and fast drying.
Polystyrene 78	Aerosol	19%	Uniform spray pattern for fast and easy application.
Polystyrene 78ET	Large, Int and Jumbo Cylinder	17%	Bonds polystyrene with no surface degradation. Extended tack time for long working time. Uniform spray pattern for fast and easy application.
	5 gallon, 54 gallon	27%	Bonds polystyrene with no surface degradation. High temperature resistance.
Hi-Temp Polystyrene 78HT	Large, Int and Jumbo Cylinder	15%	Can be used for roofing membrane attachment.
Rubber And Vinyl 80	Aerosol	13%	High strength. High temperature resistance. Fast setting.
	5 gallon, 52 gallon	23%	
Hi-Strength 90	Large, Int and Jumbo Cylinder	13%	High strength. High temperature resistance.
	Aerosol	13%	
Hi-Strength 90 CA (Low VOC)	Aerosol	23%	High strength.
W. C	5 gallon, 54 gallon	34%	
Hi-Strength 92	Large, Int and Jumbo Cylinder	23%	High strength. High temperature resistance. Versatile, high-tack adhesive.
	5 gallon, 54 gallon	25%	Bonds many laminates, woods, and particle board. Long open time, low VOC.
H: Ctth 04 FT/: \\\(\)\(\)	Large, Int and Jumbo Cylinder	25%	SCAQMD Rule 1168 compliance; helps contribute to LEED® Credits.
Hi-Strength 94 ET (Low VOC)	Aerosol	21%	Meets CARB / OTC VOC Requirements; helps contribute to LEED® Credits.
Hi-Strength Postforming 94 CA	5 gallon, 54 gallon	34%	High solids for increased coverage. Unique non-telegraphing spray pattern with
(Low VOC)	Large, Int and Jumbo Cylinder	28%	postformable strength. Low VOC, SCAQMD 1168 and LEED® Compliant.
826 Plastic Adhesive	1 qt., 5 gallon	23%	Fast drying for many plastic films. Resists fuels, water and oil. Thin liquid.

Adhesive Strength	Color	Application Method	Bonding Range (Two Surfaces)	Flammability	Heat Resistance (SAFT)	Spray Pattern	VOC Content
High	Light Yellow	Spray	10-60 min.	Flammable	300°F	Web	687g/L
High	Light Yellow	Brush/Roll	10-60 min.	Flammable	300°F	Web	589g/L
High	Clear	Spray	1–30 min.	Flammable	210°F	Web	52%
Medium	Orange	Spray	30 sec30 min.	Flammable	170°F	Web	53%
Low	Clear	Spray	15 sec.–10 min.	Flammable	140°F	Mist	59%
Medium	Clear	Brush/Roll/Spray	1–60 min.	Flammable	170°F	Pebble	79g/L 73g/L
Medium	Clear	Brush/Roll/Spray	1–60 min.	Flammable	190°F	Web	562g/L
Medium	Blue	Spray	1 min. – 8 hr.	Flammable	170°F	Web	55%
Medium	Clear/Orange	Spray Brush/Roll/Spray	30 sec.–15 min.	Flammable	170°F	Web	<55% 352g/L 563g/L
Medium	Clear/Orange	Spray	30 sec15 min.	Flammable	200°F	Web	<25%
Low	Clear	Spray	5 sec. – 60 min.	Flammable	110°F	Mist	58%
High	Clear	Spray	1–60 min.	Flammable	230°F	Web	55%
Low	Clear	Spray Brush/Roll/Spray Spray	15 sec.–15 min.	Flammable	150°F	Mist	54% 504g/L 535g/L
Low	Clear	Spray	15 sec.–30 min.	Flammable	205°F	Mist	<25%
Medium	Clear	Spray	1–15 min.	Flammable	190°F	Web	566g/L 62%
Medium	Clear/Green	Spray	1– 60 min.	Flammable	200°F	Web	622g/L
Medium	Blue	Spray	1– 60 min.	Flammable	230+°F	Web	611g/L
High	Yellow	Spray	3-30 min.	Flammable	300+°F	Web	54%
High	Clear	Brush/Roll/Spray Spray Spray	1–10 min.	Flammable	250°F	Web	356g/L 586g/L 54%
High	Clear	Spray	1–30 min.	Flammable	200°F	Web	<25%
High	Clear/Red	Spray	1–20 min.	Flammable	250+°F	Web	577g/L
	Clear/Red	Spray					<80g/L
High	Clear/Red	Brush/Roll/Spray	1– 60 min.	Flammable	210°F	Pebble	<80g/L
 nign	Clear	Spray	i– oo min.	riaiiimable	210*F	repole	<20
High	Clear/Red	Brush/Roll/Spray Spray	1–15 min.	Flammable	210°F	Pebble	79g/L 79g/L
Medium	Amber	Brush/Spray	Up to 45 min.	Flammable	_	Web	731g/L



Product	Available Format	Solids Weight Percent (Approx.)	Key Characteristics
Solvent Based Adhesives			
847 High Performance Rubber & Gasket Adhesive	5 oz, 1 qt, 1 gallon, 5 gallon, 54 gallon	36%	Quick drying and flexible with fuel and oil resistance. Able to reactivate with heat and solvent. Curable with heat.
847H High Performance Rubber & Gasket Adhesive	5 gallon	51%	High viscosity. Able to reactivate with heat and solvent. Curable with heat.
1099 High Performance Plastic Adhesive	5 oz, 1 qt, 1 gallon, 5 gallon, 54 gallon	34%	Fast drying and heat curable. Resists weathering, water, oil, plasticizer migration and aliphatic fuels.
1099L High Performance Plastic Adhesive	5 gallon, 54 gallon	24%	Sprayable version of 1099H. Fast drying and heat curable. Resists weathering, water, oil, plasticizer migration and aliphatic fuels.
1300 High Performance Rubber & Gasket Adhesive	5 oz, 1 pt, 1 qt, 1 gallon, 5 gallon,	37%	High immediate strength. Fast-drying and heat resistant for rubber and metal. Meets MIL-M-81288 and MMM-A-121.
1300L High Performance Rubber & Gasket Adhesive	1 qt, 1 gallon, 5 gallon, 54 gallon	30%	Lower viscosity for spraying. Fast-drying and heat resistant for rubber and metal. Meets MMM-A-121.
1357 High Performance Contact Adhesive	5 oz, 1 pt, 1 qt, 1 gallon, 5 gallon, 54 gallon (Light Yellow only 5 gallon and 55 gallon)	25%	Rapid build up to a very high strength bond for metal. Resists heat and continuous load stress. Meets MMM-A-121 requirements.
1357L High Performance Contact Adhesive	5 gallon, 54 gallon	18%	Low viscosity. Resists heat and continuous load stress. Meets MMM-A-121 requirements.
2262 Plastic Adhesive	1 qt, 5 gallon	27%	Clear and non-staining. Resists plasticizer migration for bonding many flexible vinyls. Fast tack.
4475 Industrial Plastic Adhesive	5 oz, 1 qt, 5 gallon	43%	Clear plastic adhesive. Fast drying. Strong environmental resistance.
4491 Industrial Adhesive	5 gallon, 54 gallon	24%	Securely bonds vinyl with resistance to plasticizer migration. Versatile plastic adhesive. Excellent environmental resistance.
4550 Industrial Adhesive	5 gallon, 54 gallon	33%	Adding tack to large surfaces. Translucent. Long bonding range.
4693 High Performance Industrial Plastic Adhesive	5 oz, 1 qt, 1 gallon, 5 gallon, 54 gallon, (High viscosity only 5 oz)	26%	Excellent plastic adhesive. Long tack range. Water and heat resistant.
4799 Industrial Adhesive	5 oz, 1 qt, 1 gallon, 5 gallon	32%	Water and heat resistant. Dries rapidly. EPDM bonder.
Non-flammable Solvent Adhesives			
Foam Fast 74NF	Mini, Large, Int and Jumbo Cylinder	24%	Non-flammable. Fast tack with foam tearing strength. Soft non-dimpling bond line.
Hi-Strength 98NF	5 gallon, 54 gallon	24%	Non-flammable, fast tack adhesive. High temperature resistance.
	Mini, Large, Int and Jumbo Cylinder	21%	Versatile, high-tack adhesive.
Water Based Adhesives			No. formula many hand and a death discharge for the latter of the latter
Fastbond™ Contact Adhesive 30NF	1 qt, 1 gallon, 5 gallon, 52 gallon, 270 gallon	49%	Non-flammable water-based contact adhesive. Extremely high strength, high temperature resistant. Meets MIL-A-24179A, Type I, GREENGUARD® Certified, SCAQMD 1168, LEED® Compliant.
Fastbond™ Contact Adhesive 30H	52 gallon, 270 gallon	48%	Long bonding range with high immediate bond strength. Economical high coverage. Low mist version of 30NF.
Fastbond™ Insulation Adhesive 49	5 gallon box, 5 gallon, 52 gallon, 100 gallon, 255 gallon	55%	Fast tacking, high performance, pressure sensitive adhesive for lightweight materials. Low VOC and GREENGUARD® Certified. UL MAGW2 component recognition.
Fastbond™ Foam Adhesive 100NF	1 gallon, 5 gallon, 52 gallon, 100 gallon, 255 gallon	47%	One-part, fast setting — foam and fabric adhesive. GREENGUARD® Certified. Can be activated for immediate bonding.
Fast Tack 1000NF	1 gallon, 5 gallon, 52 gallon, 255 tote	49%	One-part immediate handling strength. Low overspray and high coverage. Bonds a wide variety of substrates with high temperature resistance .
Fastbond™ 2000NF	5 gallon, 50 gallon, 270 gallon	49%	Water dispersed, activated adhesive. Immediate bonding and handling strength without forced drying. GREENGUARD® Certified.
Pressure Sensitive Adhesive 4224NF	5 gallon , 52 gallon	41%	Water-based, plasticizer resistant adhesive. Permanent pressure sensitive adhesive with an aggressive tack. Low VOC and GREENGUARD® Certified.
Fastbond™ Spray Activator 1	1 qt, 1 liter spray bottle, 5 gallon, 30 gallon	n/a	GREENGUARD® Certified. Low VOC and LEED® Compliant. UL MAGW2 component recognition.

Adhesive Strength	Color	Application Method	Bonding Range (Two Surfaces)	Flammability	Heat Resistance (SAFT)	Spray Pattern	VOC Content
Medium	Brown	Brush/Flow	Up to 15 min.	Flammable	_	Brush	Og/L
Medium	Brown	Brush/Flow	Up to 10 min.	Flammable	_	Brush	5g/L
High	Light Tan	Brush/Flow	Up to 40 min.	Flammable	_	Brush/Flow	5g/L
High	Light Tan	Brush/Spray	Up to 20 min.	Flammable	_	Brush/Flow	443g/L
High	Yellow	Brush/Flow	Up to 12 min.	Flammable	300°F	Brush/Flow	667g/L
High	Yellow	Brush/Spray	Up to 8 min.	Flammable	300°F	Brush/Spray	≤706g/L
High	Gray-Green/ Light Yellow	Brush/Spray	10 – 30 min.	Flammable	300°F	Web	≤582g/L
High	Gray-Green	Spray	10 – 30 min.	Flammable	300°F	Web	515g/L
High	Clear	Brush/Flow	2-20 min.	Flammable	_	Brush/Flow	177g/L
Medium	Clear	Brush/Flow	1–10 min.	Flammable	_	Brush/Flow	600g/L
High	Light Tan	Brush/Roll/Spray	Up to 20 min.	Flammable	_	Web	190g/L
Low	Clear	Brush/Roll/Spray	10 – 30 min.	Flammable	_	Web	516g/L
Medium	Clear	Brush/Spray	10 – 60 min.	Flammable	_	Web	597g/L
Medium	Black	Brush/Trowel	1–10 min.	Flammable	_	Brush/Trowel	628g/L
Medium	Red/Clear	Spray	10 – 60 min.	Non-flammable	210°F	Web	48g/L
High	Red/Clear	Spray	10 – 60 min.	Non-flammable	240°F	Web	935g/L 907g/L
High	Neutral/Green	Brush/Roll/Spray	30 min.– 4 hr.	Non-flammable	300°F	Mist	37g/L
High	Green	Brush/Roll/Spray	30 min. – 4 hr.	Non-flammable	300°F	Mist	37g/L
Low	Clear	Brush/Roll/Spray	5 min. – 8 hr.	Non-flammable	_	Mist	2g/L
Medium	Neutral/Lavender	Spray	1–20 min.	Non-flammable	_	Mist	Og/L
High	Neutral/Purple	Spray	1–10 min.	Non-flammable	300°F	Mist	Og/L
High	Blue/Light Orange/ Neutral	Co-Spray	2 min. – 2 hr.	Non-flammable	300°F	Mist	37g/L
Medium	Blue/Clear	Brush/Roll/ Spray/Trowel	15 min. – 8 hr.	Non-flammable	_	Mist	14g/L
n/a	Clear	Spray	n/a	Non-flammable	_	Mist	0g/L

3M™ Adhesive Sealants © © © 292







Flexible Bonding and **Sealing Solutions for Avoiding the Elements**

Keeping the elements — air, wind, water, dirt, sunlight, fuel, cold, heat — in or out is a design challenge for applications such as specialty vehicle windows, trailer seams, HVAC ductwork, wood doors, boat deck fittings and many more. With 3M™ Adhesive Sealants, you have a wide selection of solutions based on more than 50 years of development and innovation.





3M[™] Polyurethane Sealant 560 moisture cures to a flexible seal/bond between exterior skins and metal framework and between wood flooring and metal framework. Tensile strength up to 580 psi is enough to replace mechanical fasteners in many situations.



3M™ Weatherban™ Sealant Tapes are butyl sealants available in a variety of widths and thicknesses. These are used for applications demanding high tack, aggressive adhesion, weather resistance and flexibility.



3M™ Marine Adhesive Sealant 5200 Fast Cure cures completely in only 48 hours to a strong flexible bond/seal. Applications include: assembly above or below the waterline such as, hull and stern joints, hull to deck seams, marine hardware and more.



3M™ Marine Adhesive Sealant 4000UV has superior UV resistance that is ideal for continuous exposure to sunlight. Applications include specialty vehicle roof seams and marine hardware assembly requiring superior aesthetics.



Seam sealing ductwork with 3M™ Polyurethane Sealant 540 will prevent air and dust intrusion. Its flexibility assists with vibration damping.



For gaps and seams inside of a specialty vehicle, 3M™ Polyurethane Sealant 540 stays flexible and secure at temperature extremes. This benefit allows for thermal expansion/contraction between dissimilar substrates.



3M™ Silane Modified Polymer Adhesive Sealant 740UV has superior UV resistance that is ideal for sealing seams and filling gaps for exterior applications.

Product	Description	Tensile Strength (psi)	Elongation (%)	Skin Time (min)	Hardness (Shore A)	Color (Dry)	Appli- cation Method	Typical Handling Strength	Cure Time (mm/24 hr.)	Service Temp. Range °F (°C)
	urethane Adhesive Sealants	(Jane)	()	()	(0.000)	(7)			,	
525	Excellent for concrete sealing. Very pliable/flexible.	400	>600	90-150	25	Gray	Bead	n/a	3	-22 to 176 (-30 to 80)
540	Polyurethane. Moisture cures rapidly to flexible seal for many plastics, metal, wood and more.	300	>600	60-90	40	White, Black, Gray	Bead	24 hr.*	3	-40 to 194 (-40 to 90)
550FC	Paintable multi-purpose adhesive sealant. Adheres to a variety of substrates.	450	>600	50-90	45	White, Black, Gray	Bead	24 hr.*	4	-40 to 194 (-40 to 90)
550FC + AC61	Accelerated 2-part technology. Cures quickly. Fast handling strength.	300	>250	8–15	45	White, Black, Gray	Bead	1 hr.*	<24hr. full cure	-40 to 194 (-40 to 90)
550FC + AC63	Properties similar to 550FC + AC61.	300	>250	15-25	45	White, Black, Gray	Bead	2 hr.*	<24hr. full cure	-40 to 194 (-40 to 90)
551	Properties similar to 550FC with longer open time.	450	>600	120-180	45	White	Bead	24 hr.*	4	-40 to 194 (-40 to 90)
560	Similar to 540 but with 580 psi tensile. strength for sealing and bonding. May replace mechanical fasteners.	580	>300	50-60	55	White, Black, Gray	Bead	24 hr.*	4	-40 to 194 (-40 to 90)
590	Structural glass bonding. Crash tested (FMVSS 212). 3-hour drive-away time.	1450	>700	25-40	65	Black	Bead	3-hr. drive-away time (FMVSS 212)	3.5	-40 to 194 (-40 to 90)
5010	Moisture-curing polyurethane. Excellent wood bonder.	275	n/a	3–5	n/a	Cream	Bead	24 hr.*	24 hr. full cure	-22 to 212 (-30 to 100)
3M™ Silan	e Modified Polymer (SMP) Adhesive Sealant	:s								
730	Excellent UV resistance. Clear formulation.	250	>300	25–30	30	Clear	Bead	n/a	3.5	-40 to 194 (-40 to 90)
740UV	Excellent cosmetic sealant. Excellent UV resistance. Low VOC.	145	>300	40-60	30	White, Black, Gray	Bead	24 hr.*	3.5	-40 to 194 (-40 to 90)
760UV	Excellent adhesion. Paintable when wet. Low VOC .	260	>100	10-30	55	White, Black, Gray	Bead	24 hr.*	3.5	-40 to 212 (-40 to 100)
3M™ Wate	er-Based Sprayable Protective Sealant									
320	Easy application with spray equipment. Fast drying. UV, corrosion resistant.	420	250	60	n/a	White, Black, Gray, Dark Gray	Spray	n/a	n/a	-15 to 194 (-25 to 90)
3M [™] Wea	therban [™] Sealants									
5354	High tack butyl adheres aggressively. Easy to compress tape, resists cold flow.	n/a	n/a	n/a	60	Black	Tape	n/a	n/a	n/a
PF5422	Thread reinforced butyl tape. Repositionable with virtually no cleanup. Weather resistant.	33	200	30	30	Black	Tape	n/a	n/a	n/a
PF5423	Non-reinforced thinner product similar to PF5422.	33	200	30	30	Black	Tape	n/a	n/a	n/a
3M™ Mari	ne Adhesive Sealants									
5200	One part polyurethane. Excellent adhesion to wood, gelcoat, fiberglass. Bonds/seals above/below waterline. Long working time. Provides permanent bond.	700	>800	>48 hr.	68	White, Black, Tan, Mahogany	Bead	> 48 hr.*	<1	-40 to 190 (-40 to 88)
5200FC	One part polyurethane. High strength, non-shrinking, non-sagging bonds. Bonds/seals above/below waterline. Up to one hour open time. Provides permanent bond.	600	>900	60-120	60	White	Bead	48 hr.*	3	-40 to 190 (-40 to 88)
4200FC	One part polyurethane. Bonds/seals above/below waterline. Tack free in 1 hour.	300	>600	50-90	40	White, Black	Bead	24 hr.*	3	-40 to 194 (-40 to 90)
4000UV	Silane Modified Polymer (SMP) Adhesive Sealant. Bonds/seals above/below waterline. Superior UV resistance. Tack free in 22 minutes.	500	>700	15–30	40	White, Black	Bead	24 hr.*	3.5	-40 to 194 (-40 to 90)
3000UV	Silane Modified Polymer (SMP) Adhesive Sealant. Bonds/seals above/below waterline. Superior UV resistance. Tack free in 22 minutes.	145	>300	40-60	30	White, Black, Gray	Bead	24 hr.*	3.5	-40 to 194 (-40 to 90)
Marine Silicone	One part, 100% silicone. Excellent UV resistance. Both non-yellowing and mildew resistant.	220	>350	5–10	20	White, Clear	Bead	n/a	3	-40 to 190 (-40 to 88)
									*Varie	s by application

3M Industrial Adhesives and Tapes

Notes:		

Bonding Tapes

Convenience meets extreme bonding power.

Powerful Bonding Solutions

Help your customers successfully bond a variety of materials with strength and speed for permanent, structural and repositionable applications. Our double-sided bonding tapes provide shear strength, conformability, surface adhesion and temperature resistance.

3M™ VHB™ Tapes

Dream. Design. Deliver.

Since 1980, 3M[™] VHB[™] Tape has offered unlimited design and application possibilities. By working with 3M's engineering experts, product designers know they can count on this reliable solution. Lab-tested and proven in the real world, 3M™ VHB™ Tape eliminates rivets, bolts, screws and welds.

- Durability for long-term performance indoors and out
- Productivity through application ease and versatility
- Instant bonding
- Smooth, invisible appearance
- Viscoelastic properties absorb shock and distribute stress evenly over the bond line
- Bond dissimilar materials with confidence





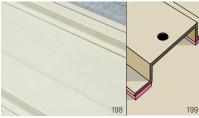
3M™ VHB™ Tape bonds panels to a bus on contact. The tape seals against water, moisture and more. Bonding power eliminates mechanical fasteners for a smooth, clean surface. Viscoelastic properties help absorb shock and vibration for bond reliability.



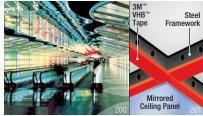
To join a variety of materials for high impact visual combinations throughout a refrigerator, 3M™ VHB™ Tape bonds painted and unpainted metal, HSE and LSE plastics, ceramics and more.



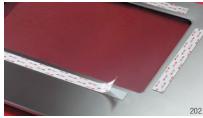
For assembly efficiency, die-cut pieces of 3M™ VHB™ Tape bond components on a laptop.



3M™ VHB™ Tapes bond panel stiffeners on contact to pre-painted metal cabinetry. Unlike welding, applying the tape does not damage the finish.



Mirrored ceiling panels are held in place with 3M™ VHB™ Tapes rather than screws. This helps maintain a clean, smooth appearance without distorting the reflective surfaces.



For a heat resistant bond, 3M™ VHB™ Tapes bond and seal stainless steel trim to the glass oven door with strength enough to replace mechanical fasteners. Door surface is smooth and attractive.



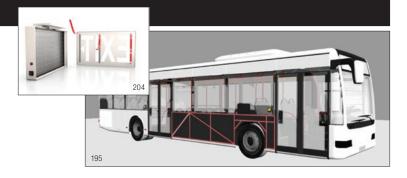
With high holding power and long-term reliability, 3M™ VHB™ Tape bonds dimensional letters to a painted wall for indoor or outdoor signage.

3M™ VHB™ Tapes — Typical Applications

 $3M^{\mathbb{N}} VHB^{\mathbb{N}} Tape$ is a proven high-strength alternative to screws, rivets, welds and other forms of traditional fastening methods. While a screw or a rivet can join two substrates at a single point, $3M^{\mathbb{N}} VHB^{\mathbb{N}} Tape$ permanently adheres one substrate to another and spreads the stress load across the entire length of the joint. The most common applications for $3M^{\mathbb{N}} VHB^{\mathbb{N}} Tape$ are:

Panel to Frame Applications

- Reduce weight and solve dynamic force challenges
- Create a clean appearance



Stiffener to Panel Applications

- Exceptional vibration and corrosion resistance
- Deliver unique designs





Lens Window to Housing Applications

- Securely seal dissimilar materials
- Enhance productivity
- Create innovative designs





Decorative Material Attachment Applications

- Unlimited opportunities to enhance products
- Flexibility of production and design





3M[™] VHB[™] Tapes

	Tape Thickness				Temp. R	esistance		Relative	Adhesion						
Product	w/o Liner	Liner		Adhesive	Minutes	Days	Solvent								
Number	mils (mm)	Type	Description	Туре	Hours	Weeks	Resistance	HSE	LSE	Application Ideas					
4941 Tape			T	1	T			1	1						
4926	15 (0.4)	Α													
4936	25 (0.64)	Α													
4936F	25 (0.64)	F	Gray, closed-cell acrylic foam carrier. Conformable.		300°F	200°F									
4941	45 (1.1)	Α	Good adhesion to many		(149°C)	(93°C)		High							
4941F	45 (1.1)	D	painted metals. Plasticizer	Multi-					High			Bond and seal polycarbonate lens over LCD. Bond and seal plastic windows to pre-painted			
4956	62 (1.6)	A	resistant. UL 746C.	purpose			High			Med	control panels/switch gear. Mount vinyl				
4956F	62 (1.6)	F		Acrylic						wiring ducts and conduit channels. Seam					
4991	90 (2.3)	F	DI 1 : (4004		250°F (121°C)	200°F (93°C)			_	_			vinyl banners.		
4991B	90 (2.3)	F	Black version of 4991.		(121 0)	(33 C)									
4919F	25 (0.64)		Black version of 4936F.		300°F	200°F									
4947F	45 (1.1)	F	Black version of 4941F.		(149°C)	(93°C)									
4979F	62 (1.6)	F	Black version of 4956F.												
5952 Tap	e Family	l		<u> </u>	I		<u> </u>	<u> </u>	I						
5906	6 (0.15)	G	_												
5907	8 (0.2)	G	Black, closed-cell acrylic foam carrier. Good							Bond and seal polcarbonate lens over LCD. Lens and touch panel bonding. Logo					
5908	10 (0.25)	G	adhesion to many painted surfaces, including powder coated paint.							attachment. P.O.P. and display construction.					
5909	12 (0.3)	G													
5915	16 (0.4)	F													
5915P	16 (0.4)	Е													
5915WF	16 (0.4)	F			300°F	250°F									
5925	25 (0.6)	F			(149°C)	(121°C)									
5925P	25 (0.6)	Е		Modified			High	High	Med						
5925WF	25 (0.6)	F	Black or white, closed-cell	Acrylic				1.1.9.1							
5930	32 (0.8)	F	acrylic foam carrier.							Bonds to a variety of plastics and paint					
5930P	32 (0.8)	Е	Good adhesion to many painted surfaces,							systems. Bond architectural signs to frames. Attach trim and extrusions. Hat channels					
5930WF	32 (0.8)	F	including powder								and stiffeners.				
5952	45 (1.1)	F	coated paint. UL 746C.												
5952P	45 (1.1)	E													
5952WF	45 (1.1)	F	_												
5962	62 (1.6)	F													
5962P	62 (1.6)	E	_												
5962WF 5958FR	62 (1.6)	F	Meets FAR 25.853 (a) 12 sec vertical burn Appendix F, Part 1 (a) (ii)		300°F (149°C)	200°F (93°C)				Overhead stow bins, signage, kick plates, galley modules, plastic and metal decorative trim, ceiling tile stiffeners, mirror mounting, air duct spuds, floor and wall panel attachment and clip attachment.					
RP Tape F	amily									and one attachment.					
RP16	16 (0.4)	А													
RP16F	16 (0.4)	F	1												
RP25	25 (0.6)	A	1												
RP25F	25 (0.6)	F	1												
RP32	32 (0.8)	A	Gray, closed-cell acrylic foam carrier. Conformable.	Multi-	250°F	200°F				Panel bonding, stiffener attachment and					
RP32F	32 (0.8)	F	Good adhesion to many	purpose Acrylic	(121°C)	(93°C)	High	High	Med	trim attachment.					
RP45	45 (1.1)	A	painted metals.	ACI YIIC				uim auachment.							
RP45F	45 (1.1)	F	1												
RP62	62 (1.6)	A	1												
RP62F	62 (1.6)	F	1												
021	JE (1.0)	<u> </u>	I .		1	1	1	I	L	I					

3M[™] VHB[™] Tapes

	Tape Thickness				Temp. Re	esistance		Relative	Adhesion			
Product Number	w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas		
4950 Tap	e Family											
4914	10 (0.25)	А										
4920	15 (0.4)	А										
4929	25 (0.6)	С										
4930	45 (1.1)	Α			300°F (149°C)	200°F (93°C)				Attach stiffeners in		
4930F	45 (1.1)	D	Closed-cell acrylic foam carrier.	General Purpose	(1.10 0)	(55 5)	High	High	Low	air conditioners, office furniture and		
4949	45 (1.1)	С	UL 746C.	Acrylic			riigii	High	LOW	telecommunications		
4950	45 (1.1)	Α								equipment.		
4955	80 (2)	С			40005	00005						
4959	120 (3)	С			400°F (204°C)	300°F (149°C)						
4959F	120 (3)	D			(== : =)	(1.10 0)						
4945 Tap	e Family											
4945	45 (1.1)	А	White, closed-cell acrylic foam carrier.	Multi- purpose	300°F	200°F	High	High	Low	Attach vinyl trim. Bond vinyl		
4946	45 (1.1)	F	Plasticizer resistant.	Acrylic	(149°C)	(93°C)				extrusions.		
4910 Tape	910 Tape Family			T.								
4905	20 (0.5)	F	Clear, acrylic construction for joining	General Purpose	300°F (149°C)	200°F (93°C)	High	High	Low	Mount backlit translucent signs. Edge-bond resin		
4910	40 (1)	F	transparent material.	Acrylic	(149°C)	(93°C)				filled glass.		
4951 Tape			T						T	T.		
4951	45 (1.1)	С		Low								
4943F	45 (1.1)	С	White, closed-cell acrylic foam carrier. Apply as low as 32°F (0°C).	Temp Appliable	300°F (149°C)	200°F (93°C)	High	High	Low	Low temperature installed products.		
4957F	62 (1.6)	С		Acrylic								
4952 Tap	e Family											
4932	25 (0.6)	А	White, closed-cell acrylic foam carrier.	Low	200°F	160°F				Bond powder painted metal stiffeners to office		
4952	45 (1.1)	А	Good adhesion to polypropylene and many powder paints.	Surface Energy	(93°C)	(71°C)	High	High	High	desks and file cabinets. Bond polypropylene and polystyrene.		
4611 Tape	Family											
4646	25 (0.6)	D		General						Pre-powder coat paint		
4611	45 (1.1)	D	Dark gray, closed-cell acrylic foam carrier. High temperature resistance. UL 746C.	Purpose	450°F (232°C)	300°F (149°C)	High	High	Low	applications. Hat channels		
4655	62 (1.6)	D	ringii terriperature resistance. UL 746C.	Acrylic	(232.0)	(149.0)				and stiffeners.		
4622 Tap	e Family											
4618	25 (0.6)	Н		General								
4622	45 (1.1)	Н	White, closed-cell acrylic foam carrier.	Purpose/ Multi- purpose	250°F (121°C)	200°F (93°C)	High	High	Low	General purpose bonding.		
4624	62 (1.6)	Н		Acrylic								

Liner Types:

- A 3 mil 54# Densified Kraft Paper
- B 5 mil Clear Polyethylene Film
- C 2 mil Polyester Film
- D 5 mil Red Polyethylene Film
- E 4 mil 58# Polycoated Kraft Paper
- F 5 mil Red Printed Polyethylene Film
- H 5 mil Green PE Film

Relative Adhesion:

HSE – High Surface Energy LSE – Low Surface Energy **Multi-purpose Acrylic:** Bonds to a wide range of materials including metals, glass, and high and medium surface energy plastics and paints. Resists migration of plasticizers in vinyl substrates.

Modified Acrylic: Bonds to medium low surface energy paints and plastics, including many powder coated paints in addition to the substrates listed with the multi-purpose acrylic adhesive (except plasticized vinyl).

General Purpose Acrylic: Bonds to most higher surface energy substrates including metal, glass and high surface energy plastics.

Low Temperature Acrylic: Bonds down to 32°F (0°C) compared to 50°F (10°C) for most acrylic adhesives. Bonds most high surface energy substrates including metal, glass and high surface energy plastics.

Low Surface Energy: High performance synthetic adhesive bonds to many lower surface energy substrates, including many plastics and powder coated paints, plus smooth general purpose substrates.

3M™ VHB™ Thin Foam Tapes

With a uniquely thin form, 3M™ VHB™ Thin Foam Tapes go where thicker foam tapes simply can't, while still providing the same great benefits of regular 3M™ VHB™ Tapes. Common applications include LCD, lens and touch panel bonding, logo attachment and point of purchase displays.



	Tape Thickness				Temp. Re	sistance		Relative	Adhesion		
Product Number	w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas	
5900 Tap	e Family										
5906	6 (0.15)									LCD, lens and touch	
5907	8 (0.2)	G	Black, closed-cell acrylic foam carrier.	Modified	300°F	250°F	High	Lliab		panel bonding,	
5908	10 (0.25)		Good adhesion to many painted surfaces, including powder coated paint.	Acrylic	(149°C)	(121°C)	High	High	Med	logo attachment, P.O.P. and display	
5909	12 (0.3)		S provide the second							construction.	
86400 Ta	pe Family										
86415	6 (0.15)									LCD, lens and touch	
86420	8 (0.2)	l I	Black, closed-cell acrylic foam carrier.		A 1:	250°F	180°F		115.1		panel bonding,
86425	10 (0.25)	G	Good adhesion to many surfaces. Excellent shock/drop characteristics.	Acrylic	(121°C)	(82°C)	Med	High	High	logo attachment, P.O.P. and display	
86430	12 (0.3)									construction.	
4914 Tape	Family										
4914-15	6 (0.15)	Α	NAMES OF THE PARTY							LCD, lens and touch	
4914-20	8 (0.2)	Α	White, closed-cell acrylic foam carrier.	General	300°F	200°F	100-6	I I i a la		panel bonding,	
4914	10 (0.25)	Α	White, closed-cell acrylic foam carrier. All-purpose adhesive. UL 746C.	Purpose	(149°C)	(93°C)	High	High	Low	logo attachment, P.O.P. and display construction.	

3M™ VHB™ Tape for Commercial Vehicles and Trailers

Built Tough with Smooth Sides to Look Good for the Long Haul

For durability and smooth sides on trailers, trucks, buses, and other commercial vehicles, $3M^{\text{\tiny M}}$ VHB^{\text{\text{\text{M}}}} Tapes are proven to go the distance.

- 3M[™] VHB[™] Tape is up to 41% quieter than mechanical fasteners with up to 30% less vibration at highway speeds
- Surfaces of truck panels are aesthetically smooth and graphics apply easily
- Permanently bonds and seals

3M™ VHB™ Tapes for Commercial Vehicles and Trailers are only available through authorized distributors and a warranty may be available on pre-approved applications.



Smooth sides with 3M™ VHB™ Tape at 100,000 miles — no leaks at 3200 psi.

	Tape				Temp. Re	sistance		
Product Number	Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	Application Ideas
CV45F	45 (1.1)	D	Gray, closed-cell acrylic foam carrier.	Multi-purpose	300°F	200°F	110-1-	Bond overlap seams on vehicle side panels.
CV62F	62 (1.6)	F	- Conformable. Good adhesion to many painted metals.	Acrylic	(149°C)	(93°C)	High	Bond vehicle side panels to posts.

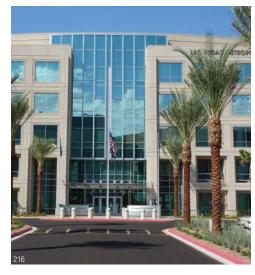
3M™ VHB™ Structural Glazing Tapes

Application Ease and Immediate Handling Strength for Increased Productivity

3M™ VHB™ Structural Glazing Tapes have been proven in thousands of buildings worldwide since 1990 as an alternative to structural silicone and spacer tapes/gaskets.

Immediate handling strength results in faster throughput and delivery. No mixing or curing simplifies manufacturing.

Proven technology with a 30+ year history in construction, an application warranty* is available for qualifying applications in select countries.





	Tape Thickness				Temp. R	esistance	Relative Adhesion		
Product Number	w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Minutes Hours	Days Weeks	HSE	LSE	Solvent Resistance
G23F	00 (0.0)	_	Gray, closed-cell acrylic foam carrier. Conformable.	Multi-	300°F	200°F	11:	Med	11:
B23F	90 (2.3)		Black, closed-cell acrylic foam carrier. Conformable.	Acrylic	(149°C)	(93°C)	High	ivied	High

^{*3}M™ VHB™ Structural Glazing Tapes are only available for structural glazing applications approved by 3M Technical Service through select distributors.

3M™ VHB™ Architectural Panel Tapes

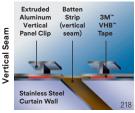
Proven for More Than 30 Years in Applications from Denver to Singapore

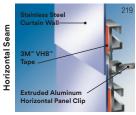
For quick permanent assembly of cladding and curtain wall panels, 3M™ VHB™ Tapes provide an ideal combination of durability, performance and application ease.

Bond to a wide range of architectural panel substrates including dissimilar materials. With design flexibility, create visibly stunning facades.

Application warranty available for qualifying applications in select countries.







	Tape				Temp. Re	esistance		Relative Adhesion	
Product Number	Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE
G11F	45 (1.1)		Gray, closed-cell acrylic foam carrier. Conformable.	•					
B11F	45 (1.1)		Black, closed-cell acrylic foam carrier. Conformable.		300°F	200°F			
G16F	62 (1.6)	Red,	Gray, closed-cell acrylic foam carrier. Conformable.	Multi-	(149°C)	(93°C)	Med	High	Med
B16F	62 (1.6)	Printed Film	Black, closed-cell acrylic foam carrier. Conformable.	purpose Acrylic					
G90F	90 (2.3)		Gray, closed-cell acrylic foam carrier. Conformable.		250°F	200°F	Mad	High	Mad
B90F	90 (2.3)	-	Black, closed-cell acrylic foam carrier. Conformable.	_	(121°C)	(93°C)	Med	High	Med



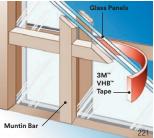


Attach Wood, Vinyl, **Composite or Painted Metal Muntin Bars to Windows**

These high strength tapes conform to glass with good wet-out and resistance to UV light, thermal expansion and contraction, solvents and cleaners. Tapes below are available only for approved window and door customers. Pre-approved applications may be eligible for a 10-year warranty.

See 3M™ Primers on page 69.





	Tape Thickness Product w/o Liner Number mils (mm) Liner Type Description				Temp. Re	esistance		Relative Adhesion	
			Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE
G45P		А	Gray, closed-cell acrylic foam carrier. Conformable.						
G45F	45 (1.1) D		Gray, closed-cell acrylic foam carrier. Conformable.	Multi-purpose Adhesive	300°F (149°C)	200°F (93°C)	High	High	Med
B45F		F	Black, closed-cell acrylic foam carrier. Conformable.	- / Milesive	(1-0 0)	(00 0)			

3M™ VHB™ Tape for Sign and Display

Reliable and **Immediate Bonding**

For indoor and outdoor signage, 3M™ VHB™ Tapes hold immediately without the work of screws and the mess and curing time of liquid adhesives.

- Bond metals, plastics, glass, foam board and more
- Invisible fastening for smooth, attractive surfaces











Clear 3M™ VHB™ Tape permanently bonds aluminum letters to glass and appears almost invisible from behind the pane.

	Таре				Temp. Re	Temp. Resistance		Relative Adhesion			
Product Number	Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas	
5952	45 (1.1)	F	Black or white, closed-cell acrylic foam carrier. Good	Modified Acrylic	300°F (149°C)	250°F (121°C)	High	High	Med	Bond and seal metal and plastic through a sign.	
5952WF	45 (1.1)	F	adhesion to many painted surfaces, including powder								
5962	62 (1.6)	F	coated paint. UL 746C.								
4910	40 (1)	F	Clear, acrylic construction for joining transparent material.	General Purpose	300°F (149°C)	200°F (93°C)	High	High	Low	Bond unpainted metal.	
4941	45 (1.1)	Α	Gray, closed-cell acrylic foam carrier. Good adhesion	Multi-purpose	300°F	200°F	High	High	Med	Bond flexible	
4956	62 (1.6)	Α	to many painted metals. Plasticizer resistant. UL 746C.	Acrylic	(149°C)	(93°C)	riigii	riigii	ivied	vinyl banners.	



3M™ VHB™ Tape is the Ultimate Solution for **Appliance Design Applications**

From the kitchen to the laundry room, trust in 3M™ VHB™ Tape to expand design freedom in everything from how the side panels hold together to the way a brand's logo is displayed. Thanks to the viscoelastic properties of 3M™ VHB™ Tape, OEM consumer and commercial design engineers and manufacturers have access to a new realm of opportunities for beautiful, more efficient household appliance designs.



					Temp. Re		Relative Adhesion				
Product Number			Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas	
4941	45 (1.1)	А	Gray, closed-cell acrylic foam carrier.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)		High	Med	Logo attachment, overlay attachment and control panel assembly.	
5952	45 (1.1)	F	Black, closed-cell acrylic foam carrier.	Modified Acrylic	300°F (149°C)	250°F (121°C)	- High				
RP45	45 (1.1)	Α	Gray, closed-cell acrylic foam carrier.	Multi-purpose Acrylic	250°F (121°C)	200°F (93°C)	-			paner assertibly.	

3M™ VHB™ Tape for Electronics

Electronic designs are becoming lighter, thinner and smaller every day. Bulky mechanical systems can be replaced with the incredible, strong, long-lasting viscoelastic bond of 3M™ VHB™ Tape. Expand design freedom and simplify manufacturing processes while meeting the challenges of a dynamic market and look no further than 3M™ VHB™ Tape.



	Tape Thickness	ckness			Temp. Re	sistance		Relative Adhesion					
Product Number	w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas			
5908	10 (0.25)	G	Black, closed-cell acrylic foam carrier.	Modified Acrylic	300°F (149°C)	250°F				Bond and seal polycarbonate lens			
5915	16 (0.4)	F					High	High	Med	over LCD. Bond and seal plastic			
5925	25 (0.6)	F				(121°C)		High	ivied	windows to pre-painted control			
5952	45 (1.1)	F								panels/switch gear. Mount vinyl wiring ducts and conduit channels.			
RP16	16 (0.4)	Α	Gray, closed-cell acrylic foam carrier.	Multi-purpose	250°F (121°C)	200°F	High	High	Med	Electronic component and			
RP45	45 (1.1)	Α		Acrylic		(93°C)	⊓ign	High	ivied	assembly attachment.			

3M™ Primers

Product Number	Solvent	Active Ingredients VOCs		Color	Flashpoint	Coverage	Application Ideas		
AP111	Isopropyl Alcohol (IPA)	Less than 5% by weight	5.91 lbs/gallon (708g/L)	Clear	52°F 19m²/L (800 ft²/gal) based on .002" wet coating thickness depending on method of application		Promote better adhesion for bare metals and painted surfaces.		
AP115	Isopropyl Alcohol and Water	Less than 1% by weight	6.08 lbs./gallon (728g/L)	Clear	53°F (12°C)	20–25 ft² per 4 fl. oz. bottle (1.8–2.3m² per 118mL bottle)	Promote better adhesion for glass.		
Primer 94	See SDS	See SDS	Approx 6.3 lbs./gallon (755g/L) less H20 and exempt solvents	Clear Light Yellow/ Clear Dark Orange	-4°F (-20°C)	600 ft²/gal (211m²/L)	Promote better adhesion for a variety of plastic surfaces such as polyethylene, polypropylene, ABS and PET/PBT blends.		

3M™ Extreme Sealing Tapes



From Trailer, Bus and Rail **Car Roof Seams to Metal Enclosures, a Sure Winner Over Traditional Sealants**

- Sticks on contact to many metals and plastics without dripping, oozing or clean-up
- Increases productivity throughput with no drying time; immediately paintable*
- Conforms over contours, edges, rivets and screw heads for a water tight seal
- Looks neat and precise for improved aesthetics
- Outstanding resistance to many common industrial solvents
- Excellent resistance to abrasion and high pressure washing
- *Accepts many paints. Test paint on tape to check for compatibility.





Suggested Uses

- RV trailer and roofs
- Metal enclosures
- Awnings
- Trailer home roofs
- Metal storage buildings
- Vent stacks/windows
- Gutters and downspouts
- Skylights
- Outdoor signs/displays
- Leak patching and repairs



Scan the code to download the 3M™ Extreme Sealing Tape **Exterior Durability Report.**

			Tape		90° P							
Product	Color	Backing/Adhesive	Thickness mils (mm)	Strength lb/in (N/cm)	Alumi- num	Stainless Steel	Glass	Truck Paint	PVC	ABS	Widths in (mm)	Length yd (m)
4411G	Grey		40 (1)	13 (23)	15 (26)	16 (28)	15 (26)	15 (26)	15 (26)	16 (28)	0.75, 1, 2, 2.5, 3, 4 (19, 25, 50, 65, 75, 100)	36 (32.9)
4411N	Neutral/Translucent	Ionomer Film/ Pressure Sensitive	40 (1)		15 (26)	15 (26)	15 (26)	14 (25)	16 (28)	16 (28)		36 (32.9)
4411B	Black	Acrylic	40 (1)		19 (33)	17 (30)	19 (33)	17 (30)	19 (33)	18 (32)		36 (32.9)
4412N	Neutral/Translucent		80 (2)		18 (32)	18 (32)	19 (33)	19 (33)	19 (33)	19 (33)		18 (16.5)

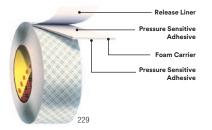
[†]Adhesion promoters were used on peel Adhesion test substrates.

3M™ Double Coated Foam Tapes

Flexible Foam Carriers Fill Gaps and Help Bond Irregular Surfaces

In bonding rough or irregular surfaces, 3M™ Double Coated Foam Tapes fill gaps and distribute stress uniformly over the bonded area.

- Bond line that seals, cushions and damps vibration
- Resists impact
- Withstands a wide temperature range to meet your application requirements
- Provides good insulating qualities
- Select from rubber or acrylic adhesive and a choice of different foam carriers: urethane, polyethylene or acrylic





To replace screws and liquid adhesives, 3M™ Multipurpose Mounting Tape 4016 bonds immediately to many indoor surfaces, even permanently mounting a plastic soap dispenser to a mirror.



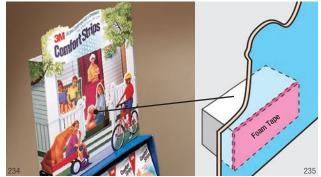
3M[™] Double Coated Foam Tapes can be precisely die-cut and pre-applied to the back of any shape. Ready to mount to a variety of surfaces.



3M[™] Double Coated Urethane Foam Tapes bond plastic signs to painted cinder block. The foam fills gaps between irregular surfaces. Various foam thicknesses are available for surface conformance based on the degree of roughness.



To permanently mount to a textured wall, 3M™ Extra Thick Multipurpose Mounting Tape 4008 bonds on contact and fills gaps between the surfaces.



3M[™] Double Coated Polyethylene Foam Tapes with high tack adhesive bond foam spacers between the planes of a 3-dimensional P.O.P. display.

3M™ Double Coated Foam Tapes

	Tape				Temp. Re	esistance		Relative	Adhesion	
Product Number	Thickness mils (mm)	Liner Type	Description	Adhesive Type	Minutes Hours	Days Weeks	Adhesive Type	HSE	LSE	Application Ideas
Urethane										
4004	250 (6.4)									
4008	125 (3.2)		Off-white, open-cell urethane							
4016	62 (1.6)		foam carrier. High shear adhesive	100	380°F (193°C)	220°F (104°C)				
4026	62 (1.6)	А	with high temperature resistance.		, , , ,	, , ,				Bond acoustic panels to walls. Mount air fresheners. Mount soap dispensers.
4032	31 (0.8)						Med	High	Low	Mount interior signs and nameplates. Attach wire clips to various surfaces.
4052	31 (0.8)		Black version of 4032.	400	380°F	220°F	1			Mount electrical channel to wall.
4056	62 (1.6)		Black versions of 4016 and 4026.	100	(193°C)	(104°C)				
4085	45 (1.1)	E,	Off-white, open-cell urethane foam carrier. High tack adhesive.	740	200°F (93°C)	125°F (52°C)				
Polyethyle	ene									
4451	32 (0.8)	С	Black, closed-cell, high density polyethylene foam carrier. High tack synthetic rubber.	A135	150°F (66°C)	120°F (49°C)				Removable applications where good static is needed. Exhibits and trade shows. Nameplates.
4462	31 (0.8)		White or black, closed-cell poly-		158°F	120°F	1			Attach hooks, wire clips and racks.
4466	62 (1.6)	В	ethylene foam carrier. High tack adhesive.	745	(70°C)	(49°C)	Med	High	Low	Mount retail shelf price channels. Mount pen holders.
4492	31 (0.8)	C	White or black, closed-cell polyethylene foam carrier.	430	180°F	158°F				Mount nameplates on awards and
4496	62 (1.6)		High shear adhesive with high temperature resistance.	430	(82°C)	(70°C)				novelties. P.O.P. displays and signs.
Acrylic										
4658F	31 (0.8)	D	Clear, closed-cell, acrylic foam tape. Clean removability from many substrates.	100	212°F (100°C)	175°F (80°C)	High	High	Low	Removable P.O.P. displays. Signs. Exhibits and trade shows. Nameplates.

Liner Types: A – 3 mil 62# Densified Kraft paper – Green plaid

B - 3 mil Densified Kraft paper - White

C – 4 mil 58# Polycoated Kraft paper – Tan D – 2 mil Polyester film – Clear

E – 3 mil Densified Kraft paper – Tan

Relative Adhesion:

HSE – High Surface Energy LSE – Low Surface Energy



3M™ Double Coated Tapes

A Variety of Carriers for Easy Handling and Dispensing

3M™ Double Coated Tapes are engineered with adhesive on both sides of paper, film or tissue. This increases the dimensional stability of the adhesive for easy handling and application.

Depending on your production volume, you can apply tape by hand or with automatic high-volume dispensers. Select paper, polyester film or other synthetic carriers to help meet your special needs. Different adhesives (rubber, silicone or acrylic) can be on opposite sides of the carrier to join different materials. Your choice of properties include high temperature resistance, conformability to irregular surfaces, high initial adhesion, high shear strength and more.



Simply roll on a strip or band of 3M™ Double Coated Tape 9832 for quick edge banding with no special equipment. Pressure sensitive adhesive tape grabs with immediate handling strength for improved productivity.



With differential adhesive, the silicone adhesive side of 3M™ Double Coated Tape adheres to a silicone rubber keypad. Acrylic adhesive side adheres to a plastic base.



3M[™] Double Coated Tape 410M is the quick, convenient way to bond golf club grips to shafts. Adhesive sets up fast and bonds firmly for long-lasting performance.



For precise fit, 3M[™] Double Coated Tape is pre-applied to foam gasketing materials and then die-cut to size. This helps increase dimensional stability of the part to facilitate assembly.

		Tape		Line	er				Adh	esion			Temp.	Range
Product	Description/ Application Ideas	Cal. (mils)	Carrier Type	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chem. Resist.	Low (°F)	High (°F)
200MP/30	OOLSE (Differential Adhesive)													
9496LE	Differential double coated tape featuring High Performance Acrylic Adhesive 200MP and	6.7	PET	58# PCK	4.2	24" x 36"		10	9	1	2	9	-40	400
	Low Surface Energy Acrylic Adhesive 300LSE.	-				sheets		9	9	10	1	8	-40	300
300LSE (L	ow Surface Energy Acrylic)				•							'		
93005LE	Very thin double-coated tape polyester tape with good anti-lifting properties.	2.0	PET	58# PCK/ 83# PCK	4.2/ 6.2	48" x 60 yd	_							
93010LE	3	3.9	PET	58# PCK	4.2	54" x 180 yd	_	9	9	10	1	8	-40	300
93015LE	High adhesion to polypropylene and LSE plastics for excellent graphic appearances. Good chemical/humidity resistance.	5.9	PET	58# PCK	4.2	54" x 180 yd	_							
93020LE		7.9	PET	58# PCK	4.2	54" x 180 yd	_							

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



		Tape		Line	er				Adh	esion			Temp	Range
	Description/	Cal.	Carrier		Caliper	Master			HSE	LSE		Chem.	Low	High
Product	Application Ideas	(mils)	Туре	Type	(mils)	Size	Specs	Metal	Plastic	Plastic	Foam	Resist.	(°F)	(°F)
300 (High	Strength Acrylic)													
444	Foam lamination. Gasket attachment.	3.9	PET	55# DK	3.2	48" x 108 yd	_	7	9	9	9	6	-40	250
444PC	Foam lamination. Gasket attachment.	3.9	PET	58# PCK	4.2	48" x 108 yd	_	,	9	9	9	0	-40	250
300MP (H	High Tack Acrylic)													
99786	Thin nonwoven carrier for dimensional stability and improved handling. Temperature resistance up to 300°F.	5.5	Non- woven	58# PCK Printed	4.2	48" x 180 yd	_							
99786NP	Same as 9786 except an unprinted liner.	5.5	Non- woven	58# PCK Unprinted	4.2	54" x 180 yd	_	7	7	8	9	7	-40	250
9832	General purpose tape with improved temperature resistance.	4.8	PET	58# PCK	4.2	54" x 250 yd	_							
9832HL	Same as 9832 except with a heavier liner.	4.8	PET	58# PCK	6.2	54" x 250 yd	_							
340 (High	n Tack Acrylic)													
9456	High tack acrylic adhesive with good adhesion to many plastics.	5.0	Tissue	55# DK	3.2	54" x 180 yd	_							
9824	Foam lamination.	3.1	PET	55# DK	3.2	54" x 250 yd	_							
9828	Gasket attachment.	4.0	PET	55# DK	3.2	54" x 250 yd	_	6	6	5	4	8	-40	180
9828PC	High tack acrylic adhesive with good adhesion to many foams.	4.0	PET	74# PCK	5.6	54" x 250 yd	_							
350 (High	Performance Acrylic)													
9500PC	High performance with good chemical resistance.	5.6	PET	61.5 PCK	4.5	48" x 108 yd	_		40	10	0		40	450
3028EK	Same as 9500PC with an extensible kraft liner which facilitates narrow slitting.	5.6	PET	Extensible Kraft	5.5	48" x 108 yd	_	9	10	10	9	8	-40	450
375 (High	Performance Double Coated)													
9086	Easy tearing, easy handling.	7.5	Tissue	Glassine Black Logo	3.0	54" x 750 yd	_							250
9087	Thick adhesive to bond rough surfaces.	10.2	PVC	Glassine Green Logo	3.0	54" x 750 yd	_	11:	116-4	M	Levi	Card	-10	185
9088	High temperature resistance with paper liner.	8.3	PET	Glassine Red Logo	3.0	54" x 750 yd	_	High	High	Med	Low	Good	-10	300
9088FL	High temperature resistance with film liner.	8.3	PET	Red PP, No Print	3.1	54" x 750 yd	_							300
400 (Acry	ylic Adhesive)			•										
415	California and faile	4.0	PET	60# DK	4.0	48" x 108 yd	_	_	5	-	-	5	60	050
9576	- Splice papers, films and foils.	4.0	Clear PP	60# DK	4.0	27" x 360 yd	_	5	5	5	5	5	-60	250

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

3M[™] Double Coated Tapes

		Таре		Li	ner				Adh	esion				mp. nge
Product	Description/ Application Ideas	Cal. (mils)	Carrier Type	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chem. Resist.	Low (°F)	High (°F)
Silicone/	Acrylic Differential													
9731	Differential adhesive. Silicone/Acrylic double coated tape. Ideal for attaching silicone materials to HSE or LSE materials.	5.5	PET	Clear PET/54# Tan PCK	3.0/5.4	48" x 180 yd	_	10	10	9	8	8	-40	300
Silicone														
96042	Silicone attachment. Silicone linered for easier processing.	5	PET	White PET	2	48" x 180 yd	_	9	8	7	6	10	-40	350
700/745	/760 (Synthetic Rubber)													
9443NP	High tack rubber adhesive with good adhesion to most plastics.	6	HDPE	60# DK	3.7	27" x 120 yd	_							
9579	Core starting on metal cores.	9	HDPE	62# DK	3.7	27" x 144 yd	_	8	9	9	2	2	-40	200
9589	Carpet attachment.	9	HDPE	60# DK	3.7	26" x 144 yd	_							
830/850	/860 (Natural Rubber)													
401M	Used for mounting rubber or photopolymer printing plates.	9.0	Paper	54# DK	3.0	22" x 108 yd	_	8	8	8	5	1	-40	180
410M	Core starting/end tabbing of papers, films and foils.	6.0	Paper	54# DK	3.0	23.5" x 108 yd	_	8	8	8	5	1	-40	200
900 (Mis	cellaneous)													
9737	Clear, thin PET carrier. Aggressive and versatile splicing tape.	3.5	PET	55# DK White	3.5	54" x 180 yd	-							
9738	Clear, non-woven tissue carrier. Aggressive and versatile splicing tape.	4.3	Non- woven tissue	55# DK White	4.3	54" x 180 yd	_	5	5	2	5	7	-10	300
9740	Clear, high peel, tack and shear strength. Performance grade splicing tape for corrugators.	3.5	PET	55# DK	3.5	54" x 180 yd	_	6	6	2	3	6	10	425
9741	Clear, thick, super aggressive tape. Adheres to a wide variety of substrates for splicing applications.	6.5	PET	55# Glassine	6.5	54" x 180 yd	_	7	7	3	7	5	-40	200
9816L				60# Kraft	3.5	54" x 200 yd	_							
9816M	General purpose, high tack, rubber-based adhesive.	3.5	PET	74# Kraft	3.5	54" x 200 yd	-	8	8	7	7	3	-40	150
9816H				14 pt. Board	3.5	54" x 200 yd	_							
9817L				60# Kraft	3.5	54" x 200 yd	_	8	7	6	7	3		
9817M	Exposed side is acrylic, liner side is rubber-based. Excellent quick stick and adhesion to high and low energy surfaces.	3.3	PET	74# Kraft	3.5	54" x 200 yd	_						-40	175
9817H	aunesion to high and low energy surfaces.			14 pt. Board	3.5	54" x 200 yd	_	8	8	7	6	3		
Specialty	Differential Rubber/Acrylic													
9377	Flame retardant double-coated tape for carpet installation to bond carpet to interior floorboards.	11.0	PP	58# PCK	4.2	24" x 25 yd	-	4, 10	_	_	_	8	40	250

Values: 1 = Lowest Performance; 10 = Highest Performance

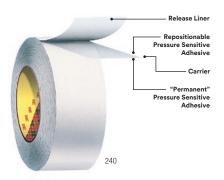
Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

3M™ Removable/Repositionable Tapes

Versatility for Many Substrates on On-Off and Open-Close Applications

Some 3M™ Removable/Repositionable Tapes feature a "permanent" adhesive on one side of a film or tissue carrier and a removable/repositionable adhesive on the other side.

Other tapes in the line offer different levels of adhesion on each side. And others feature equal adhesive strength on each side for reliable attachment but with



easy separation for repositioning or multiple openings and closings. You can join substrates that include glass, metals, wood, paper, painted surfaces and many plastics.

With linered versions, you can initially join one side to a surface while the other side is covered with the liner, ready to be joined later to the second surface. Linerless versions are used for bonding both surfaces at the same time.



3M™ Removable/Repositionable Tape seals hosiery bags for shipment and display but also lets the customer open and re-close the bag as necessary.



High tack side of 3M" Removable/Repositionable Tape 9415 "permanently" adheres to cores for winding up paper or film. Low tack side releases the paper or film when unwinding.

		Таре		L	iner				Adh	esion			Temp.	. Range
	Description/	Cal.	Carrier	_	Caliper	Master			HSE	LSE		Chem.	Low	High
Product	Application Ideas	(mils)	Туре	Туре	(mils)	Size	Specs	Metai	Plastic	Plastic	Foam	Resist.	(°F)	(°F)
400/100	0* (Differential Adhesive)													
9415PC	Differential adhesive; polyester film carrier.	2	PET	78# PCK	6.0	48" x 216 yd	_	5	5	5	4	5		
9416	Differential adhesive; tissue carrier.	1	Tissue	70# PCK	5.6	48" x 216 yd	_	3	1	1	_	2	-20	150
928 ATG	Reverse wound ATG version of 9416 on 1" core. Used with ATG700 Applicator.	1	Tissue	70# PCK	5.6	Width to 3/4" L to 36yds	_	3	1	1	_	2		
420/1050	O* (Differential Adhesive)													
	High tack/medium tack for			58#				8	7	1	4	2		
9425	repositionable parts.	5.5	UPVC	PCK	4.2	48" x 144 yd	-	3	1	1	1	2	-20	125
	High tack/medium tack acrylic adhesive offers							8	7	1	4	2		
9425HT	permanent adhesion to one substrate with removability to the other.	5	PET	58# PCK	4.2	48" x 144 yd	_	3	1	1	1	2	-20	250
400/1070	O (Repositionable Acrylic)													
665	Differential adhesive; linerless.	3.5	UPVC	None	_	46" x 108 yd	_	5	5	5	4	5	-60	125
666	Differential adhesive; linered.	3.5	UPVC	LDPE	4.0	46 x 108 ya	_]	5	5	4	5	-60	125
Differenti	al Acrylic													
97027	High tack/low tack acrylic adhesive with polyester carrier (formerly Venture 4447).	2.9		74# PCK	3.5	54" x 250 yd	_	8	7	6	5 1	3	-40	250
	High tack/medium tack acrylic adhesive with		PET	55#	_			7	6	4	3	_		
97042	polyester film carrier (formerly Venture 523).	3.8		DK	3	54" x 250 yd	-	3	2	1	1	6	-40	275
1000 (Re	positionable Acrylic)													
94498	Laminates to various substrates to make them repositionable.	0.4	None	55# DK	3.2	48" x 360 yd	_	3	1	1	_	2	-20	250
100 (High	Temp. Acrylic)													
9658F	Clear, closed foam acrylic foam tape.	31	None	PET	2.0	47" x 175 yd	_	9	8	1	_	9	-40	450
800 (Nat	ural Rubber)													
401M 410M	Temporary positioning or fixturing of parts during machining operations and plate mounting.	9	Paper	54# DK	3	22" x 108 yd 23.5" x 108 yd		8	8	8	5	1	-40 -40	180 200

^{*}Second number reflects removable adhesive side.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

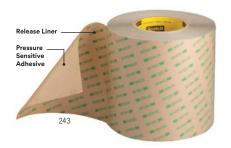
3M™ Adhesive Transfer Tapes

Neat, Precise Application and High Performance in a Variety of Applications

3M[™] Adhesive Transfer Tapes are rolls of pressure sensitive adhesive pre-applied to a special release liner.

For application, the tape is simply pressed, adhesive side down, to a surface and the liner is peeled off.

A variety of adhesive properties and liners are available to meet requirements for applications such as nameplate attachment to high and low surface energy plastics, appliance graphic overlays that perform in high temperatures, foam gasketing, web splicing and more.





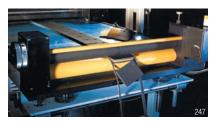
With high cohesive strength, 3M[™] Adhesive 200MP bonds aggressively with excellent temperature resistance. Meets the non-fogging specifications of the automotive industry.



For bonding flexible vinyl in such applications as door gaskets, 3M™ Adhesive Transfer Tape F9465PC resists the effect of plasticizers that tend to migrate from the vinyl.



3M™ Laminating Adhesive 300LSE is the solution for low energy surfaces such as polyolefins and powder coat paint. Graphics hold securely and stand up to tough environmental conditions.



3M" Adhesive Transfer Tapes provide conformability in a variety of foam laminating applications. The acrylic adhesive also provides high shear strength and good environmental aging properties.



3M" Adhesive Transfer Tape 465 has the grab strength for many printing splices, including flying splices, zero speed and manual overlap. Can be used with a variety of paper grades.



3M[™] Adhesive Transfer Tape 467MP is used to laminate metal foil to a circuit board to reduce interference on electronic circuitry.



For graphic beauty, 3M™ Acrylic Adhesive 100 attaches graphics in closed environments. With low odor, reduced outgassing and low fogging, it is used extensively in the automotive, aerospace and appliance industries.



		Adhesive	Li	ner				Adh	esion			Temp.	. Range
Product	Description/Application Ideas	Caliper (mils)	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chem. Resist.	Low (°F)	High (°F)
100MP* (Hi	igh Performance Acrylic)												
F9460PC	High performance industrial joining and metal fabrication.	2	58# PCK	4.2	60" x 180 yd	UL							
F9469PC	High performance industrial joining and metal fabrication.	5	58# PCK	4.2	60" x 180 yd	UL	10	7	1	2	10	-40	500
F9473PC	High performance industrial joining and metal fabrication.	10	58# PCK	4.2	60" x 180 yd	UL							
200MP (Hig	gh Performance Acrylic)												
467MC	Same as 467MP with a paper MicroChannel liner to aid in bubble and wrinkle free graphic attachment.	2	58# PCK	4.2	54" x 180 yd	_							
467MCF	Same as 467MP with a polyester MicroChannel liner to aid in bubble and wrinkle free graphic attachment.	2	PET	4.2	54" x 180 yd	_							
467MP	Graphic attachment and general industrial joining. Industry standard. 60 in. width master also available.	2	58# PCK	4.2	48" x 180 yd	UL M ^H							
467MPF	Polyester liner for rotary processing of graphic and die cut parts.	2	PET	2.0	54" x 180 yd	UL							
468MC	Same as 468MP with a paper MicroChannel liner to aid in bubble and wrinkle free graphic attachment.	5	58# PCK	4.0	54" x 180 yd	_	10	9	1	3	9	-40	400
468MCF	Same as 468MP with a polyester MicroChannel liner to aid in bubble and wrinkle free graphic attachment.	5	PET	4.0	54" x 180 yd	_							
468MP	Industry standard for graphic attachment and die cut parts. 60 in. width master also available.	5	58# PCK	4.2	48" x 180 yd	UL M ^H							
468MPF	Thicker version of 467MPF.	5	PET	2.0	54" x 180 yd	UL							
9667MP	Same as 467MP on heavy, lay-flat liner for kiss-cutting. 48 in. width master also available.	2	83# PCK	6.2	54" x 180 yd	UL							
9668MP	Same as 468MP on heavy, lay-flat liner. 48 in. width master also available.	5	83# PCK	6.2	54" x 180 yd	UL M ^H							
9668MPL	Better lay-flat properties.	5	94# PCK	7.0	60" x 180 yd	_							
220 (Indust	rial Acrylic)												
9502	Economical attachment of graphics and industrial joining. 60 in. width master also available.	2	58# PCK	4.2	48" x 180 yd	UL							
9505	Thicker version of 9502 for textured surfaces. 60 in. width master also available.	5	58# PCK	4.2	48" x 180 yd	UL	8	7	1	2	8	-40	350
9552	Double-linered laminating adhesive version of 9502.	2.3	58/58# PCK	4.2	48" x 360 yd	UL							
9555	Double-linered laminating adhesive version of 9505.	4.9	58/58# PCK	4.2	48" x 360 yd	UL							

^{*}Products in this platform are $3M^{\text{\tiny{M}}}$ VHB $^{\text{\tiny{M}}}$ Tapes offering our highest strength.

M^H meets Mil-P-19834B Type I.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

3M[™] Adhesive Transfer Tapes **② ②**₂₉₂



		Adhesive	L	iner				Adh	esion			Temp	. Range
Product	Description/Application Ideas	Caliper (mils)	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chem. Resist.	Low (°F)	High (°F)
290 (Low C	Outgassing Acrylic)			'									
501FL	Ultra-clean adhesive for low outgassing applications.	1	PET	2.0	54" x 180 yd	_	9	7	1	2	9	-40	450
502FL	Ultra-clean adhesive for low outgassing applications.	2	PET	2.0	54" x 180 yd	_] 9	/	'	2	9	-40	450
300 (High 9	Strength Acrylic)												
927	Attach gaskets and a variety of industrial foam materials.	2	60# DK	3.5	48" x 180 yd	_							
950	Thicker version of 927.	5	60# DK	3.5	48" x 180 yd	UL							
950EK	Thicker version of 927 with extensible Kraft liner.	5	78# EK	6.0	48" x 180 yd	_							
992U	For performance-engineered labels. UV indicator in adhesive.	2	55# DK	3.2	48" x 180 yd	UL							
9458	Thin, high tack adhesive for rotary processing HSE and LSE parts.	1	55# DK	3.2	54" x 360 yd	UL							
9459W	White version of laminating adhesive 9459S.	1.5	55# DK	3.2	48" x 360 yd	UL							
9471	For smooth LSE plastics.	2	60# DK	3.5	48" x 180 yd	UL M ^H	7	9	9	9	6	-40	250
9471PC	Same as 9471 on moisture-stable liner.	2	61# DK	4.2	48" x 180 yd	_							
9472	5.0 mil version of 9471; for textured surfaces.	5	60# DK	3.5	48" x 180 yd	UL M ^H							
9653	A 3.5 mil version of 9471 on a heavy, lay-flat liner for kiss-cutting.	3.5	83# PCK	6.2	48" x 180 yd	UL							
9671	Heavier linered version of 9471 for easy handling, lay-flat properties.	2	83# PCK	6.2	48" x 180 yd	UL M ^H							
9672	Heavier linered version of 9472 for easy handling, lay-flat properties.	5	83# PCK	6.2	48" x 180 yd	UL							
9673	Same as 9671 with unprinted liner.	2	83# PCK	6.2	48" x 180 yd	UL M ^H							
300FR (Flai	me Retardant)												
9372W	Flame retardant. Moisture stable liner.	2	83# PCK	6.2	60" x 180 yd	UL							
9372DKW	Flame retardant. Rotary diecuttable liner.	2	55# DK	3.2	60" x 180 yd	UL	8	9	9	9	6	-40	250
9375W	Flame retardant. Moisture stable liner.	5	83# PCK	6.2	60" x 180 yd	UL							

^{*}Products in this platform are $3M^{\text{\tiny{M}}} VHB^{\text{\tiny{M}}}$ Tapes offering our highest strength. M^H meets Mil-P-19834B Type I.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



		Adhesive	L	iner				Adh	esion			Temp	. Range
Donatorat	Baradadia (Aradia di India	Caliper		Caliper	Master		Maraal	HSE	LSE	F	Chem. Resist.	Low	High
Product	Description/Application Ideas ow Surface Energy Acrylic)	(mils)	Туре	(mils)	Size	Specs	Metal	Plastic	Plastic	Foam	Resist.	(°F)	(°F)
9453FL	Film linered version of 9453LE for rotary processing.	3.5	PET	2.0	54" x 180 yd	UL							
9453LE	A 3.5 mil version of 9471LE for application to rough surfaces. 48 in. master width available.	3.5	58# PCK	4.2	54" x 180 yd	UL							
9471FL	Film linered version of 9471LE for rotary processing.	2.3	PET	2.0	54" x 180 yd	UL							
9471LE	Bonds graphics to powder coatings, LSE plastics and oily materials.	2.3	58# PCK	4.2	54" x 180 yd	UL							
9472FL	A 5 mil version of 9471LE with film liner for textured surfaces.	5.2	PET	2.0	54" x 180 yd	UL	9	10	10	1	7	-40	300
9472LE	Thicker adhesive for textured LSE plastics and powder coatings.	5.2	58# PCK	4.2	54" x 180 yd	UL							
9653LE	Heavy linered 9453LE for easy handling and lay-flat properties.	3.5	83# PCK	6.2	54" x 180 yd	UL							
9671LE	Heavy linered 9471LE for easy handling and lay-flat properties.	2.3	83# PCK	6.2	54" x 180 yd	UL							
9672LE	Heavy linered 9472LE for easy handling and lay-flat properties.	5.2	83# PCK	6.2	54" x 180 yd	UL							
300SF (So	lvent-Free)*	ı			ı								
XT2112	High tack acrylic adhesive.	5	55# DK	3	48" x 60 yd	_	6	9	9	5	5	-40	200
XT2105	Thinner version of XT2112.	2	55# DK	3	48" x 60 yd	_							
300MP (H	igh Tack Acrylic)	1			ı								
6035PC	Resists fogging for automotive interior fabric joining applications.	5	58# PCK	4.2	60" x 180 yd	_							
6035PL	Heavy linered version of 6035PC for easy handling, lay-flat properties.	5	83# PCK	6.2	60" x 180 yd	_							
6038PC	Low fogging. Automotive fabric and carpet attachment.	8	58# PCK	4.2	60" x 180 yd	_		7	0	0	7	40	050
6038PL	Low fogging. For rough embossed surfaces with heavy liner for steel rule die-cutting.	8	83# PCK	6.2	60" x 180 yd	_	7	7	8	8	7	-40	250
9772WL		2											
9773WL	Provides excellent bond to various fabricated	3	96# PCK	7.0	60" x	_							
9774WL	foams, fabrics and substrates.	4	PCK		180 yd								
9775WL	T	5											
9447	Tenacity Acrylic) Designed for use with 3M™ Label Component Systems.	1	55# DK	3.2	54" x 360 yd	_	5	5	1	1	5	-60	250
350 (High	Performance Acrylic)												
9442	Excellent temperature and solvent resistance; high bond to low surface energy substrates.	2	55# DK	3.2	48" x 180 yd	UL							
9445	Thicker version of 9442.	5	55# DK	3.2	48" x 180 yd	UL							
9482PC	High tack and shear strength; excellent adhesion to plastics and foams.	2	58# PCK	4.2	48" x 180 yd	UL		10	40	^		40	450
9485EK	Thicker version of 9482PC with an extensible Kraft liner.	5	78# EK	6.0	48" x 180 yd	_	9	10	10	9	8	-40	450
9485PC	A 5 mil version of 9482PC.	5	58# PCK	4.2	48" x 180 yd	UL							
9675	Heavy linered version of 9485PC for easy handling, lay-flat properties.	5	83# PCK	6.2	48" x 180 yd	_							

^{*}Manufactured using a solventless adhesive coating process.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

3M™ Adhesive Transfer Tapes 🚱 292



		Adhesive	L	iner				Adh	esion			Temp	. Range
Product	Description/Application Ideas	Caliper (mils)	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chem. Resist.	Low (°F)	High (°F)
400 (Acryl	lic Adhesive)	,								-			
463	High tack and excellent adhesion to most paper stocks. For automatic dispensing.	2	60# DK	3.5	48" x 180 yd	_							
465	Same as 463, but with easy liner release for manual or hand application.	2	60# DK	3.5	48" x 180 yd	_							
9457	Adhesive with long term stability, excellent outdoor performance and UV resistance. Adhesive 400 is best if necessary to apply at cooler temperatures.	1	55# DK	3.2	54" x 360 yd	UL	5	5	5	4	5	-60	250
9665	Thicker version of 9457.	2	58# PCK	4.2	48" x 180 yd	_							
420 (Acryl	ic Adhesive)												
F9752PC	High tack; can be applied in temperatures as low as 32°F (0°C).	2	58# PCK	4.2	54" x 360 yd	_	7	7	8	4	6	-40	300
F9755PC	Thicker version of F9752PC for textured surfaces.	5	58# PCK	4.2	54" x 360 yd	_	1	/	8	4	6	-40	300
430 (Acryl	ic Adhesive)												
9497	Pink tinted high temperature splicing tape.	2	60# DK	3.5	48" x 360 yd	_	6	6	5	4	5	-40	350
9499	Transparent version of 9497.	2	60# DK	3.5	48" x 360 yd	_		0	5	4	5	-40	330
Specialty A	Acrylic												
9379	Jet fuel and hydraulic fluid resistant adhesive transfer tape.	2	PET	2	48" x 200 yd	Мн	9	8	1	2	9	-40	350
9380	Thicker version of 9379.	5	PET	2	48" x 200 yd	Мн	9	0	1	2	9	-40	330
F9465PC	Vinyl plasticizer resistant adhesive.	5	58# PCK	4.2	54" x 360 yd	_	10	10	7	5	5	40	200
F9467U	Vinyl plasticizer resistant adhesive.	3.5	58# PCK	4.2	54" x 180 yd	_	1 10	10	/	5	٥	-40	200
Silicone													
91022	Silicone attachment. Silicone linered for easier processing.	2	White PET	2	48" x 180 yd	_	9	8	7	6	10	-40	500

M^H meets Mil-P-19834B Type I.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

Scotch® ATG Transfer Tapes

Finger Touch Application of Pressure Sensitive Adhesive

Versatility, convenience and speed. That's what you get with Scotch® ATG Transfer Tapes for assembly operations in businesses ranging from appliance and printing to P.O.P. and electronics. Readily bond, join, mount, or laminate materials such as paper, plastics, metal, foam and more.

With Scotch® ATG Applicators, a touch of the finger triggers a quick, controlled application of Scotch® ATG Transfer Tape at the same time as the liner rewinds into the applicator. There is no mess and no cleanup. 3M advanced acrylic adhesive bonds on contact and is formulated with a choice of properties such as high temperature resistance, differential tack, adhesion to low surface energy plastic and more.





Save time and effort with Scotch® ATG Transfer Tapes and Applicators. You apply a precise strip of adhesive at the same time as the liner rewinds into the applicator.



Scotch® ATG Applicator 700 with Scotch® ATG Transfer Tape 924 makes fast work of folder assembly. Pressure sensitive adhesive bonds immediately and the folder pocket is ready to hold contents.







Scotch® ATG Applicator 752C for 3/4", 1/2" and 1/4" wide tape (1/4" adapter purchased separately)



Scotch® ATG Applicator 3662 for 2" wide tape

Additional ATG products are available as part of the X-Series portfolio on page 84.

	Tape Thickness			erature tance			ative esion		Adhesive Transfer
Product	w/o Liner mils (mm)	Description	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas	Tape Equivalent
300 (High	Tack Acrylic)								
976	2 (0.05)							Attach fabric swatches in sample books.	927
969	5 (0.13)	High tack. Excellent adhesion to most plastics.	250°F (121°C)	150°F (65°C)	Med	High	High	Assemble point-of-purchase displays. Bond trim strips to furniture or luggage. Bond labels to plastic toys. Attach gaskets or foams.	950
350 (High	Performance /	Acrylic)							
926	5 (0.13)	High performance. Excellent temperature and solvent resistance.	450°F (232°C)	300°F (149°C)	High	High	High	Bond fabric or trim to window blinds. Splice aluminum coils. Bond foam insulation. Mount nameplates on award plaques.	F9485PC
400 (Gene	eral Purpose A	dhesive)							
970XL	1 (0.025)							Attach photos to layouts. Attach labels.	920XL
924	2 (0.05)	General purpose. Excellent adhesion	250°F (121°C)	180°F (82°C)	Med	Med	Low	Seal pocket in folders. Bond mat board in picture	465
987*	1.7 (0.040)	to most paper stocks.	(121 0)	(02 0)				frames. Splice paper, films, foils. General purpose bindery attaching.	9498
400/1000	(Repositional	ole Adhesive)							·
928	2 (0.05)	Differential tack. Repositionable.	180°F (82°C)	150°F (65°C)	Med	High/ Low	Low/ Low	Attach credit card in mailer. Core start/end tab paper, films and foils. Attach temporary labels.	9416

*3M Brand Relative Adhesion: HSE - High Surface Energy; LSE - Low Surface Energy

3M™ Extended Liner Tapes

Versatile Pressure Sensitive Adhesive on Easy-to-Remove Liners

3M™ Extended Liner Tapes offer the adhesive versatility of 3M tapes but with liners wider than the adhesive. This leaves an easy-to-lift edge for convenient and easy liner removal. With the variety of adhesives, you have a selection of performance characteristics such as high tack for coated papers and plastics, low tack for temporary attachment, high temperature resistance and more. Apply manually or with equipment matched to your production volume requirements.





3M[™] Extended Liner Tapes are available with a release liner wider than the adhesive. This provides an easy-to-grab edge for convenient liner removal.



Depending on adhesive type, 3M" Extended Liner Tapes are applied to envelopes, polybags, boxes or tubes. User simply peels off liner to expose the adhesive for an immediate, secure closure.



Automatic and semi-automatic equipment is available for higher volume applications. For example, apply tape to business forms, literature, bounce back and business reply cards.



3M" Extended Liner Tapes 450XL, 450EK and 465XL immediately bond product information "outserts" to polyethylene bottles. Holds tightly but can be cleanly removed.

	Tape Thickness			Tempe Resis				ative esion	
Product	w/o liner mils (mm)	Liner Type	Description	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas
340									
466XL	2 (0.05)	62# DK White with Black Print	High tack; Permanent	180°F (82°C)	150°F (65°C)	Med	High	High	Coated papers and low surface energy (LSE) plastics. Overnight envelopes. Features an end-of-roll indicator tab for automated dispensing.
400									
465XL	2 (0.05)	60# DK Tan with Green Print							Seal flaps on overnight envelopes. Pressure sensitive edging on business forms. General commercial joining applications. For attaching materials that require more adhesive thickness. Larger outsert attachments.
450EK	1 (0.025)	78# Extensible Kraft White w/o Print	General purpose	250°F (121°C)	180°F (82°C)	Med	Med	Low	Pharmaceutical outsert attachment. For applications requiring a more tear resistant liner.
450XL	1 (0.025)	60# DK Tan with Green Print		(121 C)	(62 0)				Pharmaceutical outsert attachment. General paper attachment.
920XL	1 (0.025)	40# DK White with Red Print							Seal flaps on polybags and envelopes. Pressure sensitive edging on business forms, literature, photos, posters and labels.
9926XL	1 (0.025)	40# DK White with Red Print	General purpose	180°F (82°C)	150°F (65°C)	Med	Med	Low	Economical alternative for general paper-to-paper applications.
600									
9934XL	4 (0.10)	60# DK tan without Print	High tack to LSE materials	150°F (65°C)	120°F 49°C)	Med	High	High	P.O.P. displays. Difficult splicing applications, shelf talkers, price tags, polyethylene foam bonding. indirect food-contact applications. High tack to LSE materials.
760									
476XL	6 (0.16)	62# DK White with Red Print	High tack, double coated film	150°F (65°C)	120°F 49°C)	Med	High	High	Heavy-duty sealing. Mounting of promotional items. Core starting. Closure of overnight boxes, tubes and envelopes. Indirect food-contact applications. ¹
770									
9925XL ²	2.5 (0.065)	43# DK White with Black Print	Tissue reinforced; High initial adhesion to a wide variety of materials	150°F (65°C)	100°F 41°C)	Low	Med	Med	General mounting. P.O.P. items. Attaching tags and labels. Core starting. Permanent bonding paper-to-paper, business forms, traffic tickets, novelty items and literature. Indirect food-contact applications. ¹

^{1 -} FDA acceptable dry ingredients listed as indirect food-contact additives when used in food packing with minimal opportunity for exposure.

Relative Adhesion:

HSE – High Surface Energy LSE – Low Surface Energy

^{2 -} Non-liner side is adhesive coated full width.





Value, Performance and Quality

Selecting the right high-quality tape is now easier than ever. 3M™ X-Series Tapes set the standard for affordable adhesion with four simple categories: XP Series, XT Series, XG Series and XR Series.



		Таре		Li	iner			Adhe	esion				mp. nge
Product	Description/Application Ideas	Cal. (mils)	Carrier Type	Туре	Caliper (mils)	Master Size	Metal	HSE Plastic	LSE Plastic	Foam	Chem. Resist.	Low (°F)	High (°F)
XG Series	(General Purpose Acrylic)												
XG2105	Ideal for assembling, bonding and attaching paper stocks in commercial printing, graphics, specialty packaging and fulfillment applications.	2	n/a	62# DK	2	48" x 60 yd	5	5	5	4	5	-60	250
XG5110	Attach papers and plastic films in print, graphics and specialty packaging applications	4	Clear PP	55# DK	4	27" x 60 yd	5	5	5	5	5	-60	250
XG6110	Used to attach papers and plastic film in print, graphic and specialty packaging applications.	4	Clear PET	55# DK	3.2	48" x 36 yd	5	5	5	5	5	-60	250
XP Series	(High Performance Acrylic)												
XP2112	Ideal for hanging posters and signs, trophy and recognition placards, and nameplates and emblems; securely attach smooth surface moldings and trim.	5.0	n/a	55# DK	3.2	48" x 36 yd	9	10	10	9	8	-40	450
XP6114	High shear strength tape for mounting plastic and metal trim.	5.6	PET	58# PCK	4.2	48" x 36 yd	9	10	10	9	8	-40	450
XR Series	(Rubber Adhesive)												
XR4123	Aggressive rubber adhesive with tough carrier for clean removal from solid surfaces.	9	HDPE	58# DK	4	27" x 36 yd	8	9	9	2	2	-40	200
XR4115	Aggressive rubber adhesive for superior quick stick adhesion. Clean removal from solid surfaces	6	HDPE	58# DK	4	27" x 60 yd	8	9	9	2	2	-40	200
XR8115	Hand tearable double coated paper tape for temporary holding and clean removal.	6	Paper	54# DK	3	23.5" x 36 yd	8	8	8	5	1	-40	200
XR8123	Hand tearable double coated paper tape with thick carrier for temporary holding and clean removal.	9	Paper	54# DK	3	22" x 36 yd	8	8	8	5	1	-40	180
XT Series	(High Tack Acrylic)												
XT2105	Ideal for use on coated papers and other smooth surface materials.	2	n/a	55# DK	3.2	48" x 60 yd	6	9	9	4	5	-40	200
XT2112	Ideal for attaching smooth plastic trim, moldings and emblems. Holds securely to coated papers, film and many other textured surfaces.	5	n/a	55# DK	3.2	48" x 60 yd	6	9	9	4	5	-40	200
XT6110	Attaching porous fabrics, flock, foams and heavy cardstocks.	3.9	PET	55# DK	3.2	48" x 36 yd	7	9	9	9	6	-40	250

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

	Tape Thickness			erature tance			ative esion		Adhesive Transfer
Product	w/o liner mils (mm)	Description	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas	Tape Equivalent
XT Series —	ATG Format	(High Tack Acrylic)							
XT2105- ATG	2 (0.05)	General purpose. Excellent	200°F	150°F				Attach coated papers and plastics in printing and graphic applications.	XT2105
XT2112- ATG	5 (0.13)	adhesion to coated papers, paperboard and plastics.	(93°C)	(65°C)	Med	High	High	Perfect for plastics assembly and for attaching heavy paperboards and corrugated in P.O.P. and packaging applications.	XT2112

Relative Adhesion: HSE - High Surface Energy; LSE - Low Surface Energy

Note: The technical information and data provided here should be considered representative or typical only and should not be used for specification purposes. User should evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of application.

Specialty Technologies

Supporting your designs behind the seams.

Powerful Fastening Solutions

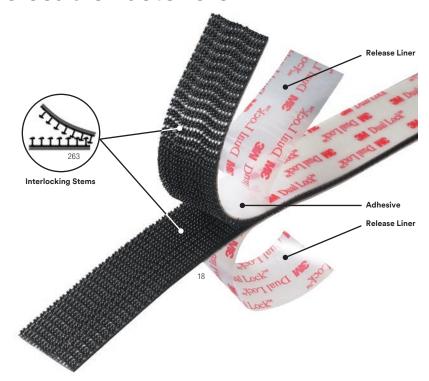
3M™ Reclosable Fasteners provide secure fastening with easy access and enhanced gripping for a wide range of applications. Weather-resistant single coated foam tapes are practical solutions that protect against moisture, dust, vibration and impact, and remain flexible.

3M™ Dual Lock™ Reclosable Fasteners

Holding Power to Replace Screws, Bolts and Rivets

Durable enough to last through repeated opening and closing. Unique mushroom-shaped heads snap shut and stay locked.

- Durable up to 1,000 openings and closings before losing 50% of original tensile strength
- Helps reduce vibration
- Temperature, moisture and UV resistant
- Strong, pressure-sensitive adhesive bonds on contact
- Interlocking mushroom-shaped heads have 5X the tensile strength of hook-and-loop products





Secure plastic signs to window glass.



Anchor vehicle accessories to dashboard.



Attach elevator control panel to interior wall.



Fasten ceiling panels to interior for future access.



Attach access panels to industrial, electronic and electrical equipment.

3M™ Dual Lock™ Reclosable Fasteners and Applications (1) (292



Best Suggested Product Primer Recommended Performance Dependent on Selected Attachment Method

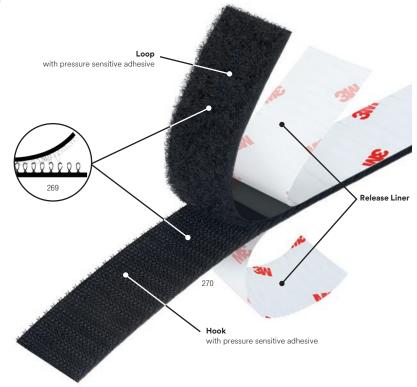
								Su	ıbstra	tes		Use			N	/larke	ts		
Product	Stem Density (per sq/in)	Adhesive	Color	3M Liner	Engaged Thickness	Temperature Resistance °F (°C)	Metals (Al & SS)	Glass	Plastics (Acrylic, PC, ABS)	Powder Coated Paints	Low Surface Energy (PP,PE)	Indoor/Outdoor	Aerospace & Rail	Appliance & Electronics	Design & Construction	Furniture & Upholstery	General Industrial	Marine & Specialty Vehicle	POP, Display & Signage
SJ3540	250			White,															
SJ3541	400	Rubber	Black	5 mil (0.13mm) Polyolefin	0.23 in (5.7mm)	120 (49)						Indoor							
SJ3542	170			Polyolelin															
SJ3550	250			Clear,															
SJ3551	400	White Acrylic	Black	4 mil (0.10mm)	0.23 in (5.7mm)	200 (93)				•	•	Indoor/ Outdoor							
SJ3552	170			Polyolefin															
SJ3558	250	White Acrylic	Clear*	Clear, 4 mil (0.10mm) Polyolefin	0.23 in (5.7mm)	200 (93)				•	•	Indoor/ Outdoor							
SJ3560	250			Clear,															
SJ3561	400	Clear Acrylic	Clear	4 mil (0.10mm)	0.23 in (5.7mm)	220 (104)				•	•	Indoor/ Outdoor							
SJ3562	170	·		Polyolefin															
SJ3550CF	250			Clear,															
SJ3551CF	400	Clear Acrylic	Black	4 mil (0.10mm)	0.23 in (5.7mm)	220 (104)				•	•	Indoor/ Outdoor							
SJ3552CF	170	·		Polyolefin															
SJ3870	250			Red,															
SJ3871	400	Modified Acrylic	Black	4.5 mil (0.11mm)	0.24 in (6.1mm)	140 (60)					•	Indoor/ Outdoor							
SJ3872	170			Polyolefin															
SJ3782	250	Low Surface Energy Acrylic	Black	Brown, 83# Polykraft	0.16 in (4.1mm)	120 (49)						Indoor/ Outdoor							
SJ3440	250																		
SJ3441	400	None	Black	No Liner	0.15 in (3.86mm)	220 (104)	_	_	_	_	_	Indoor/ Outdoor		_	_	_	_	_	_
SJ3442	170					, ,													
SJ3443	400	Non-woven																	
SJ3444	170	Backing with	Black	No Liner	0.28 in (7.1mm)	220 (104)	_	_	_	_	_	Indoor/ Outdoor		_	_	_	_	_	_
SJ3445	250	No Adhesive																	
SJ3460	250	None	Clear	No Liner	0.15 in (3.86mm)	220 (104)	_	_	_	_	_	Indoor/ Outdoor		_	_	_	_	_	_
SJ3463	400	Piece Part Circle ⁺	Black	No Liner	0.20 in** (5.1mm)	220 (104)						Indoor/ Outdoor							
SJ3481	400	Rigid Strip [†]	Black	No Liner	0.20 in** (5.1mm)	220 (104)	_	_	_	_	_	Indoor/ Outdoor		_	_	_	_	_	_
SJ4570		Low Surface	Clear	Brown,	0.098 in	158						Indoor/							
SJ4575	Low - Profile/	Energy Acrylic	Black	83# Polykraft	(2.489mm)	(70)				Ĺ		Outdoor							Ļ
SJ4580	Thin	Clear Acrylic	Clear	Red, 4.5 mil (0.11mm) Polyolefin	0.12 in (3.0mm)	200 (93)				•	•	Indoor/ Outdoor			•	•			

^{*}Clear fastener utilizes a white adhesive giving the product a white appearance **Single thickness; not engaged †No adhesive

3M™ Hook and Loop Reclosable Fasteners

Hooks on One Side, Loops on the Other for Secure, **Repeated Closures**

- Reliable PSA holds on contact with a variety of materials
- Low profile options, as much as 75% thinner than standard product
- Up to 5,000 closures for standard Hook and Loop
- Flame resistant product available
- Also available without adhesive





Attach cushioning panels in an ambulance or bus.



Sew to the fabric and leather of jackets and gloves.



Use as a replacement for string, tapes, rubber bands, wire and strapping.



Attach removable seat cushions.



Hang graphics and banners that change frequently.

3M[™] Hook and Loop Reclosable Fasteners and Applications (□) (□)₂₉₂

Best Suggested Product
Performance Dependent on Selected
Attachment Method
Primer Recommended
Back-to-back fastener which can wrap around any type of surface or substrate

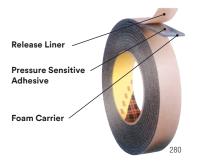
									Su	bstra	tes		Use		M	arke	ts	
Product	Туре	Adhesive	Closure Life	Product Material	Liner Description	Engaged Thickness	Temperature Resistance °F (°C)	Metals (Al & SS)	Glass	Plastics (Acrylic, PC, ABS)	Powder Coated Paints	Low Surface Energy (PP, PE)	Indoor/Outdoor	Aerospace & Rail	Furniture & Upholstery	General Industrial	Marine & Specialty Vehicle	POP, Display & Signage
Best																		
SJ3526N SJ3527N	Hook Loop	High Performance Rubber	5,000	Nylon	White, 3 mil (0.08mm) Polyethylene Film 3M Red Print	0.14 in. (3.6mm)	120 (49)						Indoor					
SJ3572 SJ3571	Hook	High Performance Acrylic	5,000	Nylon	Clear, 4 mil (0.10mm) Polypropylene Film Embossed 3M Logo	0.14 in. (3.6mm)	200 (93)				_	<u> </u>	Indoor/ Outdoor					
Better		1 101/110																
SJ3522 SJ3523	Hook	Plasticizer Resistant Acrylic	5,000	Nylon	Clear, 3.5 mil (0.08mm) Polyolefin Film, No print	0.14 in. (3.6mm)	158 (70)						Indoor/ Outdoor					
SJ3530 SJ3531	Hook	High Tack Rubber	5,000	Nylon	Yellow, 3 mil (mm) Polyethylene Film No Print	0.14 in. (3.6mm)	90 (32)						Indoor					
General Purp					INO Print													
SJ30L	Hook Loop	Rubber	5,000	Nylon	White, 3 mil (0.08mm) Polyethylene Film No Print	0.14 in. (3.6mm)	100 (38)						Indoor					
SJ60H SJ60L	Hook Loop	Acrylic	5,000	Nylon	Clear, 4 mil (0.10mm) Polypropylene Film Embossed 3M Logo	0.125 in. (3.2mm)	180 (82)	_		_			Indoor/ Outdoor					
SJ3401 SJ3402	Loop Hook	None	5,000	Nylon	None	0.12 in. (3.0mm)	200 (93)	•	•	•	•	•	Indoor/ Outdoor		•	•		•
Low Profile/	Thin												•					
SJ3506 SJ3507	Hook Loop	Acrylic	25	Polypropylene Polyester	Brown #83 Polykraft Green Print	0.034 in. (0.84mm)	158 (70)				_	_	Indoor/ Outdoor					
sJ3000	Back-to-Back Hook and Loop	None	10	Polypropylene/ Nylon	None	0.053 in. (1.3mm)	200 (93)						Indoor					
Flame Resist	ant																	
SJ3519FR SJ3518FR	Hook Loop	Flame Resistant	5,000	FR Nylon	White, 3 mil (0.08mm) Polyethylene Film 3M Red Print	0.14 in. (3.6mm)	158 (70)	•		•			Indoor					
SJ3419FR SJ3418FR	Hook Loop	None	5,000	FR Nylon	None	0.12 in. (3.0mm)	200 (93)	•	•	•	•	•	Indoor/ Outdoor	•	•	•		

3M™ Single Coated Foam Tapes

Roll-on Protection Against Moisture, Dust, Noise, Vibration and Impact

3M™ Single Coated Foam Tapes are strips of foam in a roll with high strength acrylic adhesive on one side of the foam. Cut to length, they seal, damp, insulate or cushion. For die-cut shapes, 3M™ Single Coated Foam Tape Series 4100, 4300, and 4700 is protected by a liner. With 3M™ Single Coated Foam Tape Series 4500, the liner is on the non-adhesive side to minimize foam stretching while placing the gasket.

Urethane foams seal, cushion, damp sound, and absorb vibration. Weather-resistant vinyl foams seal out light and dust when under compression and remain flexible even when exposed to variable temperatures and UV.





In a computer printer, 3M[™] Urethane Foam Tape 4318 is a very soft, low density cushion that helps absorb impact and vibration.



To help prevent light leakage around a sign perimeter, 3M" Vinyl Foam Tape 4726 attaches securely on contact.



When compressed 50%, the open cell construction of 3M[™] Urethane Foam Tape 4314 provides an air barrier and cushion in electronic equipment.



In outdoor mailboxes, strips of 3M[™] Vinyl Foam Tape 4504 helps seal the inside from rain and dirt. Vinyl provides excellent aging characteristics and remains flexible.

				Approximate	Density	Tensile	Compression		Temperatu	re Tolerance
Product Number	Color	Description	Adhesive	Thickness in. (mm)	lb/cu ft (kg/cu m)	Strength (psi (kPa)	Deflection 25% psi (kPa)	Compression Set % Loss	Short- term	Long-term
Urethane										
4104*	Natural White	Firm, rigid, open cell urethane		0.250 (6)	12 (192)	115 (795)	4 (27.6)	8		
4108	Natural White	foam for cushioning. Allows air or gas vapors to pass through. Not	350 Acrylic	0.125 (3)	16 (256)	130 (895)	6 (82.8)	8	350°F (176°C)	200°F (93°C)
4116	Natural White	recommended for outdoor use.		0.062 (1.5)	18 (288)	115 (795)	12 (82.8)	12		
4314	Charcoal Gray	Soft conformable, low density foam		0.250 (6)						
4317*	Charcoal Gray	for sealing out air, dust and light when compressed 30%. Used to help damp sound and absorb vibration in	430 Acrylic	0.375 (9.5)	2 (32)	25 (170)	0.3 (2.1)	5	250°F (121°C)	150°F (66°C)
4318	Charcoal Gray	electronics.		0.125 (3)						
Vinyl										
4504*	Black	Durable, flexible, closed cell		0.250 (6)	20 (320)	90 (620)				
4508*	Black	vinyl foams with excellent aging characteristics. Weather resistant. Application ideas include dust	430 Acrylic	0.125 (3)	20 (320)	100 (690)	4 (27.6)	15		
4516*	Black	and moisture seal.		0.062 (1.5)	25 (400)	130 (895)			250°F	150°F
4714*	Black			0.250 (6)	14 (225)	75 (515)	2 (13.8)	5	(121°C)	(66°C)
4718*	Black	Same as above except lower density and liner over PSA.	430 Acrylic	0.125 (3)	20 (320)	100 (690)	4 (27.6)	15		
4726*	Black			0.062 (1.5)	20 (320)	130 (895)	3 (20.7)	15		

^{*}Meets requirements of UL 94HBF.

3M Converter Markets Center

Converting 3M Technology into Successful Applications

3M Converters match 3M technologies to customer requirements with the exact form, fit, and functionality for application success in identifying, bonding, protecting, and electrical shielding or conducting.

Converter expertise includes part design, quick prototyping, laminating adhesives to various surfaces, printing labels and durable graphics, slitting, and die-cutting.

3M technologies include the following:

- 3M™ Performance Label Materials
- 3M™ Thin Attachment Tapes
- 3M[™] Adhesive Transfer and Double Coated Bonding Tapes such as 3M[™] VHB[™] Tapes
- 3M™ Single Coated Tapes such as crepe masking tape
- 3M™ Reclosable Fasteners
- 3M™ Bumpon™ Protective Products
- And more



3M[™] Performance Label Materials with Structured Adhesive — With unique microchannels throughout the structured adhesive, air flows freely from between the label adhesive and substrate. Hand-applied large labels go on smoothly and stay that way permanently without unsightly wrinkles and bubbles.



For permanent attachment of die-cut durable graphics, 3M[®] Low Surface Energy (LSE) Acrylic Adhesive 300 bonds on contact and stays tight on low surface energy plastics, powder coated paints, and lightly oiled metals.



Dimensionally-stable 3M™ Double Coated Tapes are pre-applied to foam gasketing material and die-cut to precise shape and size for fast, easy application.



3M converters can slit 3M™ Masking Tapes to specified widths and roll lengths, as well as diecut to unique shapes for specialized applications.



For hundreds to thousands of openings and closings, 3M converters customize 3M* Reclosable Fasteners to meet exact customer requirements for form, fit, mating strength, and liner.



For a little touch of quiet and skid resistance on a PDA or other small product, custom 3M" Bumpon" Protective Products are scaled for the design. Adhesive is formulated to hold even a small bonding surface.



From the 150,000 possible combinations of adhesives, facestocks, overlaminates and liners, 3M has many choices for durable labels requiring UL and/or RoHS compliance.

Numerical Index

Product	Page	Product	Page	Product	Page	Product	Page	Product	Page
1	56	420LH	24	807	26	3000UV	59	4412N	70
5	54	420NS	24	810	25	3028EK	74	4451	72
5-Way Penetrant.	51	444	74	810NS	25	3501 B/A	22	4462	72
10	54	444PC	74	812	26	3532 B/A	27	4466	72
20	54	450EK	83	825	26	3535 B/A	27	4475	56
24	54	450XL	83	826	54	3549	26	4491	56
27	54	460	24	847	56	3731	44	4492	72
30H	56	460NS	24	847H	56	3738	44	4496	72
30NF	56	463	81	920XL	83	3747	44	4504	90
49	56	465	81	924	82	3748	44	4508	90
60 CA	53, 54	465XL	83	926	82	3748 VO	44	4516	90
70	53, 54	466XL	83	927	79	3750	44	4550	56
72	54	467MC	78	928	82	3750LM	44	4611	65
74	53, 54	467MCF	78	928 ATG	76	3762	44	4618	65
74 CA	54	467MP	78	950	79	3762LM	44	4622	65
74NF	53, 56	467MPF	78	950EK	79	3764	44	4624	65
75	54	468MC	78	969	82	3776LM	44	4646	65
76	54	468MCF	78	970XL	82	3779	44	4655	65
77	53	468MP	78	976	82	3789	44	4658F	72
78	54	468MPF	78	987	82	3792	44	4693	56
78ET	53, 54	476XL	83	992U	79	3792LM	44	4714	90
78HT	54	501FL	79	1000NF	56	3794	44	4718	90
80	54	502FL	79	1099	56	3797	44	4726	90
90	53, 54	525	59	1099L	56	3798LM	44	4799	56
90 CA	54	540	59	1300	56	4000UV	59	4905	65
92	53, 54	550FC	59	1300L	56	4001	53	4910	65, 68
94	69	550FC + AC61	59	1357	56	4004	72	4914	65, 66
94 CA	53, 54	550FC + AC63	59	1357L	56	4008	72	4914-15	66
94 ET	53, 54	551	59	1386	28	4016	72	4914-20	66
98NF	53, 56	560	59	1469	28	4026	72	4919F	64
100	22	590	59	1751 B/A	22	4032	72	4920	65
100 Plus	23	600	27, 36	1838 B/A	22	4052	72	4926	64
100FR	22	600NS	27	1838L B/A	22	4056	72	4929	65
100NF	56	601	27	2000NF	56	4085	72	4930	65
100NS	22	601NS	27	2086	28	4104	90	4930F	65
105	23	604NS	26	2214 Hi-Density	28	4108	90	4932	65
110	23	605NS	27	2214 Hi-Temp New	28	4116	90	4936	64
125	23	608	27	2214 Hi-Temp Origina	l28	4200FC	59	4936F	64
270	22	620NS	27	2214 Non-Metallic Fille	ed28	4224NF	56	4941	64, 68, 69
320	59	665	76	2214 Regular	28	4314	90	4941F	64
401M	75, 76	666	76	2216 B/A	23	4317	90	4943F	65
405	24	730	59	2216NS B/A	23	4318	90	4945	65
410M	75, 76	740UV	59	2158 B/A	22	4411B	70	4946	65
415	74	760UV	59	2262	56	4411G	70	4947F	64
420	24	805	26	2290	28	4411N	70	4949	65

Numerical Index

Product	Page	Product	Page	Product	Page	Product	Page	Product	Page
4950	65	6501	53	9496LE	73	9828	74	3M™ EPX™ Pneumat	ic
4951	65	8005	25	9497	81	9828PC	74	Applicator 50mL	34
4952	65	8010	25	9499	81	9832	74	3M™ Scotch-Weld™	
4955	65	8010NS	25	9500PC	74	9832HL	74	EPX™ Manual Appl 200mL	
4956	64, 68	8405NS	26	9501	53	9913	43	3M™ Scotch-Weld™	
4956F	64	8410NS	26	9502	78	9916	43	Plus II Applicator	
4957F	65	8425NS	26	9505	78	9917	43	3M™ Scotch-Weld™	
4959	65	8805NS	25	9552	78	9921	43	EPX™ Pneumatic	25
4959F	65	8810NS	25	9555	78	9922	43	Applicator 200mL AC09	
4979F	64	8825NS		9576	74	9925XL	83		
4991	64	9086	74	9579	75	9926XL		AC113	
4991B	64	9087	74	9589	75	9929	43	AC452	
5001		9088		9653		9934XL		AC649	
5010		9088FL		9653LE	80	9940		AC77	
5106		9372DKW		9658F		9946		AC79	
5200		9372W		9665		53382		Adhesive Remover	
5200FC		9375W		9667MP		86415		Adhesive Remover - Low VOC <20% C	
5354		9377		9668MP		86420		AE II	
5906		9379		9668MPL		86425		AE II LT	
5907		9380		9671		86430		AP111	
5908		9415PC		9671LE		87979		AP115	
		9416		9672		87982		B11F	
5909		9416		9672LE		91022		B16F	
5915									
5915P		9425HT		9673		93005LE		B23F	
5915WF		9442		9675		93010LE		B45F	
5925		9443NP		9725		93015LE		B90F	
5925P		9445		9726		93020LE		Bench Mount	
5925WF		9447		9727		96042		Bench Nozzle Asser	,
5930		9449S		9731		97027		CA4	
5930P		9453FL		9737		97042		CA5	
5930WF		9453LE		9738		97331		CA7	
5952	64, 68, 69	9456		9740	75	98073		CA8	
5952P		9457		9741		99786		CA9	
5952WF	64, 68	9458	79	9772WL	80	99786NP	74	CA40	30
5958FR		9459W	79	9773WL	80	250050	53	CA40H	30
5962	64, 68	9471	79	9774WL	80	650050	53	CA50 Gel	30
5962P	64	9471FL	80	9775WL	80	3M™ EPX™ 200ml	-,	CA100	30
5962WF	64	9471LE	80	9785	43	250mL, 400mL Manual Applicat	or35	Citrus Base Cleaner	51
6035PC	80	9471PC	79	9816H	75	3M™ EPX™ 400ml		CV45F	66
6035PL	80	9472	79	9816L	75	Pneumatic Appli		CV62F	66
6038PC	80	9472FL	80	9816M	75	3M™ EPX™ 490ml		DP100	22
6038PL	80	9472LE	80	9817H	75	Manual Applicat	or35	DP100 Plus	23
6111	40, 44	9482PC	80	9817L	75	3M™ EPX™ 490ml		DP100FR	22
6111HT/6111HT [Blue40, 44	9485EK	80	9817M	75	Pneumatic Appli	cat01 30	DP100NS	22
6116	40, 44	9485PC	80	9824	74	3M™ EPX™ Metal Applicator 50ml	34	DP105	23

Numerical Index

DP110 DP125	23	EC2500	29	DD4O					
				PR40	29	SJ3441	87	Surface Activator	31
DP1902		EZ250015	38	PR100	29	SJ3442	87	TC	43
	22, 23	EZ250030	38	PR600	29	SJ3443	87	TE015	39
DP270	22	EZ250060	38	PR1500	29	SJ3444	87	TE030	39
DP405	24	EZ250120	38	PS65	32	SJ3445	87	TE031	39
DP420	24	EZ250150	38	PS67	32	SJ3460	87	TE040	39
DP420LH	24	EZ250200	38	PS77	32	SJ3463	87	TE100	39
DP420NS	24	F9460PC	78	QSS	53	SJ3481	87	TE200	39
DP460	24	F9465PC	81	Quadrack Convert	er43	SJ3506	89	TL22	32
DP460NS	24	F9467U	81	RP16	64, 69	SJ3507	89	TL42	32
DP6002	27, 36	F9469PC	78	RP16F	64	SJ3518FR	89	TL43	32
DP600NS	27	F9473PC	78	RP25	64	SJ3519FR	89	TL62	32
DP601	27	F9752PC	81	RP25F	64	SJ3522	89	TL71	32
DP601NS	27	F9755PC	81	RP32	64	SJ3523	89	TL72	32
DP604NS	26	Foot Pedal Assembly.	43	RP32F	64	SJ3526N	89	TL77	32
DP605NS	27	G11F	67	RP45	64, 69	SJ3527N	89	TL90	32
DP608	27	G16F	67	RP45F	64	SJ3530	89	TS115 HGS	39
DP620NS	27	G23F	67	RP62	64	SJ3531	89	TS230	39
DP640	26	G45F	68	RP62F	64	SJ3540	87	Valve Assembly Kit	43
DP805	26	G45P	68	RT09	33	SJ3541	87	XG2105	84
DP807	26	G90F	67	RT20G	33	SJ3542	87	XG5110	84
DP810	25	GM10	33	RT38	33	SJ3550	87	XG6110	84
DP810NS	25	GM18	33	RT41	33	SJ3550CF	87	XP2112	84
DP812	26	Heavy-Duty		RT48	33	SJ3551	87	XP6114	84
DP820	26	Benchstand	43	RT5000B	30	SJ3551CF	87	XR4115	84
DP825	26	HP42	32	SF20	30	SJ3552	87	XR4123	84
DP5001	26	HP45	32	SF100	30	SJ3552CF	87	XR8115	84
DP51062	26, 36	LO 100	29	SI Gel	29	SJ3558	87	XR8123	84
DP8005	25	LO 1000	29	SI100	29	SJ3560	87	XT2105	80
DP8005	25	LSB60	24	SI1500	29	SJ3561	87	XT2105	84
DP8010	25	LSB60NS	24	Silicone Lubricant.	51	SJ3562	87	XT2105-ATG	84
DP8010NS	25	LSB90	23	Silicone Spray		SJ3571	89	XT2112	80
DP8405NS	26	LSB360NS	24	60% VOC	51	SJ3572	89	XT2112	84
DP8410NS	26	LT	43	SJ30H	89	SJ3782	87	XT2112-ATG	84
DP8425NS	26	Marine Silicone	59	SJ30L	89	SJ3870	87	XT6110	84
DP8805NS	25	MC100	30	SJ60H	89	SJ3871	87		
DP8810NS	25	PF5422	59	SJ60L	89	SJ3872	87		
DP8825NS	25	PF5423	59	SJ3000	89	SJ4570	87		
EC	43	Pneumatic PG II LT w	ith	SJ3401	89	SJ4575	87		
EC Gel	29	Speedloader	43	SJ3402	89	SJ4580	87		
EC40	29	Pneumatic PG II with		SJ3418FR	89	Standard Caulk Gun.	35		
EC5	29	Speedloader	43	SJ3419FR	89	Super 77™	54		
EC100	29	PR Gel	29	SJ3440	87	Super 77™ CA	54		

Product Name Index

Product	Page	Product	Page	Product	Page	Product	Page	Product	Page
3M™ Adhesive Se	ealants	9671	79	5-Way Penetran	t51	444	74	SJ3871	87
525	59		_ ,	Silicone Lubrica	nt51	444PC	74	SJ3872	87
540	59	3M™ Adhesive Tapes (cont.)	Transfer	OR STM O		99786	74	SJ3782	87
550FC	59	9672	79	3M™ Concrete Repair Products	•	ONATH Develope O		SJ3440	87
550FC + AC61	59	9673		DP600		3M™ Double Co Tapes (cont.)	pated	ONATH Development	TM
550FC + AC63	59	9372W		600		99786NP	74	3M™ Dual Lock Reclosable Fas	
551	59	9372DKW		DP5106 Gray		9832		(cont.)	
560	59	9375W		98073		9832HL		SJ3441	87
590	59	9453FL		87979		9456		SJ3442	87
5010	59	9453LE		97331		9824		SJ3443	87
730		9471FL		87982		9828		SJ3444	87
740UV	59	9471LE	80	53382	36	9828PC		SJ3445	87
760UV	59	9472FL	80			9500PC	74	SJ3460	87
320	59	9472LE	80	3M™ Cylinder S	pray	3028EK	74	SJ3463	87
5354	59	9653LE	80	Adhesive 60 CA	50	9086	74	SJ3481	87
PF5422	59	9671LE	80	70		9087	74	SJ4570	87
PF5423		9672LE		74		9088	74	SJ4575	87
5200	59	XT2112	80	74 74NF		9088FL	74	SJ4580	87
5200FC	59	XT2105	80	74NF		415	74	ONA™ Fraternale al	Lines Tenne
4200FC		6035PC	80	77 78 ET		9576	74	3M™ Extended 466XL	
4000UV		6035PL	80	90		9731	75	465XL	
Marine Silicone	59	6038PC	80	92		96042	75	450EK	
3M™ Adhesive		6038PL	80	94 CA		9443NP	75	450EK	
Transfer Tapes		9772WL	80	94 CA		9579	75	920XL	
F9460PC	78	9773WL	80	94 ET		9589	75	920XL	
F9469PC	78	9774WL	80	9501		401M	75	9934XL	
F9473PC	78	9775WL	80	6501		410M	75	476XL	
467MC	78	9447	80	4001		9737	75	9925XL	
467MCF	78	9442	80	QSS		9738	75	9920XL	00
467MP	78	9445	80	250050		9740	75	3M™ Extreme	
467MPF	78	9482PC	80	650050		9741	75	Sealing Tapes	
468MC	78	9485EK	80	030030		9816L	75	4411G	70
468MCF	78	9485PC	80	3M™ Double Co	pated	9816M	75	4411N	70
468MP	78	9675	80	Foam Tapes		9816H	75	4411B	70
468MPF	78	463	81	4004	72	9817L	75	4412N	70
9667MP	78	465	81	4008		9817M	75		
9668MP	78	9457	81	4016		9817H	75	3M™ Hook and Reclosable Fas	•
9668MPL	78	9665	81	4026	72	9377	75		
9502	78	F9752PC	81	4032		01478 0 11 1	тм	SJ3526N SJ3527N	
9505	78	F9755PC	81	4052		3M™ Dual Lock Reclosable Fas		SJ3572	
9552	78	9497	81	4056		SJ3540		SJ3572 SJ3571	
9555	78	9499	81	4085		SJ3541		SJ3522	
501FL	79	9379	81	4451		SJ3542		SJ3522 SJ3523	
502FL	79	9380	81	4462		SJ3550		SJ3530	
927	79	F9465PC	81	4466		SJ3551		SJ3530 SJ3531	
950	79	F9467U	81	4492		SJ3552			
950EK	79	91022	81	4496		SJ3558		SJ30H SJ30L	
992U	79	2M/™ (2L=		4658F	72	SJ3560		SJ60H	
9458	79	3M™ Cleaners and Lubricants		3M™ Double Co	ated Tapes	SJ3561		SJ60H SJ60L	
9459W	79	Adhesive Remo		9496LE	-	SJ3562		SJ3401	
9471	79	Adhesive Remo		93005LE		SJ3550CF		SJ3401 SJ3402	
9471PC	79	Low VOC <20		93010LE		SJ3550CF		SJ3402 SJ3506	
9472	79	Citrus Base Cle		93015LE		SJ3552CF		SJ3506 SJ3507	
9653	79	Silicone Spray 6		93020LE		SJ3870			
		omeone opiay C	,0,0 vOO01			000070	01	SJ3000	89

Product Name Index

Product	Page	Product	Page	Product	Page	Product	Page	Product	Page
3M [™] Hook and L Reclosable Faste	•	3M™ Hot Melt A (cont.)	Applicators	3M™ Scotch-V Anaerobic Adl		3M [™] Scotch-W Instant Adhesiv		3M™ Scotch-W Structural Adh	
(cont.)		Pneumatic PG II	LT with	TL22	32	SI Gel	29	(cont.)	
SJ3519FR		Speedloader	43	TL42	32	SI100	29	100NS	
SJ3518FR		AE II LT	43	TL43	32	SI1500	29	DP190	
SJ3419FR		TC	43	TL62	32	LO 100	29	DP270	
SJ3418FR	89	TC with Quadra	ck	TL71	32	LO 1000	29	270	
3M™ Hot Melt A	dhesives	Converter	43	TL72	32	EC Gel	29	1751 B/A	
3750LM	44	Pneumatic PG II	with	TL77	32	EC5	29	1838 B/A	
3762LM		Speedloader	43	TL90	32	EC40	29	1838L B/A	
3776LM		AE II	43	HP42	32	EC100	29	2158 B/A	
3792LM		EC	43	HP45		EC2500		3501 B/A	
3798LM		ONA™ Lina Nania		PS65		SF20		DP100 Plus	
3731		3M™ Hot Melt Spray Adhesive	es	PS67	32	SF100	30	100 Plus	
3738		6111		PS77	32	RT5000B	30	DP105	
3747		6111HT/6111HT E		RT09	33	MC100	30	105	
3748		6116		RT20G	33	CA4	30	DP110	
3748 VO		0110	40	RT38	33	CA5	30	110	
3750		3M™ Industrial		RT41	33	CA7	30	DP125	
3762		Attachment Tap	oes —	RT48	33	CA8	30	125	
3764		X-Series	0.4	GM10	33	CA9	30	DP190	
		XG2105		GM18		CA40	30	2216 B/A	2
3779		XG5110		AC649	33	CA40H	30	2216NS B/A	2
3789		XG6110				CA50 Gel	30	LSB90	2
3792		XP2112		3M™ Scotch-V		CA100		DP405	24
3797		XP6114		Applicators ar		AC09		405	24
3794		XR4123		3M™ Scotch-W		AC77		DP420	24
6111		XR4115	84	Plus II Applica		AC79		420	24
6111HT		XR8115	84	3M™ EPX™ Met	al	AC113		DP420LH	24
6116	44	XR8123	84	Applicator 50		AC452		420LH	24
3M™ Hot Melt A	ccessories	XT2105	84	3M™ EPX™ Pnei	umatic	Surface Activate		DP420NS	
9725		XT2112	84	Applicator 50	mL34	Surface Activate	JI	420NS	
9726		XT6110	84	3M™ Scotch-W	/eld™	3M™ Scotch-W	/eld™ PUR	DP460	
9727		XT2105-ATG	84	EPX™ Manual	Applicator	Adhesive Syste	ems	460	
9785		XT2112-ATG	84	200mL	34	EZ250015	38	DP460NS	
9913				3M™ EPX™ 200	mL,	EZ250030	38	460NS	
9916		3M™ Primers		250mL, 400n	nL	EZ250060	38	LSB60	
9917		AP111	69	Manual Applic	cator35	EZ250120		LSB60NS	
		AP115	69	3M™ EPX™ 490	mL	EZ250150	38	LSB360NS	
9921		94	69	Manual Applic	cator35	EZ250200	38	DP810	
9922		3M [™] Removable	٥/	3M™ Scotch-W	/eld™	TE015	39	810	
9929		Repositionable		EPX™ Pneuma	tic	TE030	39	DP810NS	
9940		9415PC	•	Applicator 20	0mL35	TE031	39	810NS	
9946		9416		3M™ EPX™ 400	mL	TE040	39	DP8805NS	
Heavy-Duty Benc		928 ATG		Pneumatic Ap	plicator35	TE100	39	8805NS	
Bench Mount		9425		3M™ EPX™ 490	mL	TE200	39		
Bench Nozzle Ass	,	9425HT		Pneumatic Ap	plicator35	TS230	39	DP8810NS	
Foot Pedal Assem		665		Standard Caulk	Gun35	TS115 HGS	39	8810NS	
TC and LT Palm T		666						DP8825NS	
Quadrack Convei		97027		3M™ Scotch-V		3M™ Scotch-W		8825NS	
Valve Assembly K	(it43	97042		Instant Adhesi		Structural Adh		DP8005	
3M™ Hot Melt A	pplicators	97042 9449S		PR Gel		DP100		8005	
LT				PR40		100		DP8010	
LT with Quadrack		9658F		PR100		DP100FR		8010	
Converter		401M		PR600		100FR		DP8010NS	
OUTIVELIEL	43	410M	/6	PR1500	29	DP100NS	22	8010NS	25

Product Name Index

Product	Page
3M™ Scotch-Weld	
Structural Adhesiv	es
(cont.) DP805	06
805	
DP807	
807	
DP812	
812	
DP820	
DP825	
825	26
DP8405NS	26
8405NS	26
DP8410NS	26
8410NS	26
DP8425NS	26
8425NS	26
DP604NS	26
604NS	26
DP640	26
3549	26
DP5001	26
5001	26
DP5106	26
5106	26
DP600	27
600	27
DP600NS	27
600NS	27
DP601	27
601	27
DP601NS	27
601NS	27
DP605NS	27
605NS	27
DP608	27
	27
DP620NS	
620NS	
3532 B/A	
3535 B/A	
1386	
1469	
1469 2086	
2214 Hi-Density	
2214 Hi-Temp New	
2214 Hi-Temp Origi	
2214 Non-Metallic F	
2214 Regular	
2290	28

Product Page
3M™ Single Coated
Foam Tapes
410490
410890
411690
431490 431790
431890
450490 450890
451690
471490
471890
472690
3M™ VHB™ Architectural
Panel Tapes G11F67
B11F 67
G16F67
B16F67
G90F 67 B90F 67
B90F07
3M [™] VHB [™] Structural
Glazing Tange
Glazing Tapes G23F 67
G23F67
G23F67 B23F67
G23F

3M" VHB" Tapes (cont.) 5930P
5930P 64 5930WF 64 5952 64 5952P 64 5962 64 5962P 64 5962WF 64 5962WF 64 5958FR 64 RP16 64 RP25 64 RP25F 64 RP32 64 RP45 64 RP45 64 RP62 64 RP62F 64 4914 65 4920 65 4930 65 4949 65 4950 65 4959 65 4959 65 4949 65 4959 65 4945 65 4946 65 4947 65 4948 65 4949 65 4945 65 4946 65 4947 65 4948 65 4949
5930WF 64 5952 64 5952P 64 5952WF 64 5962 64 5962P 64 5962WF 64 5958FR 64 RP16 64 RP25 64 RP25F 64 RP32 64 RP32F 64 RP45 64 RP62 64 4914 65 4920 65 4930 65 4930 65 4949 65 4950 65 4959 65 4959 65 4945 65 4946 65 4947 65 4948 65 4949 65 4945 65 4946 65 4947 65 4948 65 4949 65 4946 65 4947 65 4948
5952P 64 5952WF 64 5962 64 5962P 64 5962WF 64 5958FR 64 RP16 64 RP25 64 RP25F 64 RP32 64 RP32F 64 RP45 64 RP45F 64 RP62 64 4914 65 4920 65 4930 65 4930 65 4949 65 4950 65 4959 65 4959 65 4959 65 4946 65 4946 65 4947 65 4948 65 4949 65 4945 65 4946 65 4947 65 4948 65 4949 65 4946 65 4947 65 4948
5952WF 64 5962 64 5962P 64 5962WF 64 5958FR 64 RP16 64 RP25 64 RP25F 64 RP32 64 RP32F 64 RP45 64 RP45F 64 RP62 64 4914 65 4920 65 4930 65 4930 65 4930 65 4950 65 4959 65 4959 65 4959 65 4945 65 4946 65 4947 65 4946 65 4947 65 4948 65 4949 65 4945 65 4946 65 4947 65 4948 65 4949 65 4946 65 4947
5962 64 5962P 64 5962WF 64 5958FR 64 RP16 64 RP25 64 RP25F 64 RP32 64 RP32F 64 RP45 64 RP45F 64 RP62 64 4914 65 4920 65 4930 65 4930 65 4949 65 4950 65 4959 65 4959 65 4959 65 4959 65 4959 65 4946 65 4946 65 4947 65 4948 65 4949 65 4946 65 4947 65 4948 65 4949 65 4946 65 4947 65 4948 65 4949
5962P 64 5962WF 64 5958FR 64 RP16 64 RP25 64 RP25F 64 RP32 64 RP32F 64 RP45 64 RP45F 64 RP62 64 4914 65 4929 65 4930 65 4930 65 4930 65 4950 65 4955 65 4959 65 4959 65 4959 65 4959 65 4959 65 4959 65 4945 65 4946 65 4910 65 4947 65 4948 65 4949 65 4957 65 4945 65 4946 65 4947 65 4948 65 4949
5962WF 64 5958FR 64 RP16 64 RP16F 64 RP25 64 RP25F 64 RP32 64 RP32F 64 RP45 64 RP45F 64 RP62 64 4914 65 4929 65 4930 65 4930 65 4949 65 4950 65 4959 65 4959 65 4959 65 4959 65 4945 65 4946 65 4910 65 4947 65 4948 65 4949 65 4945 65 4946 65 4947 65 4948 65 4949 65 4946 65 4947 65 4948 65 4949
5958FR 64 RP16 64 RP16F 64 RP25 64 RP25F 64 RP32 64 RP45 64 RP45F 64 RP62 64 4914 65 4920 65 4930 65 4930 65 4949 65 4950 65 4959 65 4959 65 4959 65 4959 65 4959 65 4945 65 4946 65 4947 65 4948 65 4949 65 4945 65 4946 65 4947 65 4948 65 4949 65 4946 65 4947 65 4948 65 4949 65 4949 65 4946
RP16 64 RP16F 64 RP25 64 RP25F 64 RP32 64 RP32F 64 RP45F 64 RP45F 64 RP62 64 RP62F 64 4914 65 4920 65 4929 65 4930 65 4930F 65 4949 65 4950 65 4955 65 4955 65 4956 65 4946 65 4941 65 4946 65 4947 65 4947 65 4948 65 4948 65 4949 65 4946 65 4946 65 4947 65 4948 65 4948 65 4949 65 4946 65 4946 65 4947 65 4947 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4948 65 4957 65 4943F 65 4943F 65
RP16F 64 RP25 64 RP25 64 RP25F 64 RP32 64 RP32F 64 RP45 64 RP45F 64 RP62 64 RP62F 65 4914 65 4920 65 4929 65 4930 65 4930F 65 4949 65 4950 65 4955 65 4959 65 4959 65 4959 65 4945 65 4946 65 4946 65 4947 65 4948 65 4948 65 4949 65 4945 65 4946 65 4946 65 4957 65 4943F 65 4943F 65 4943F 65 4952 65
RP25 64 RP25F 64 RP32 64 RP32F 64 RP32F 64 RP45 64 RP45F 64 RP62 64 RP62F 64 RP62F 65 RP62F 6
RP25F 64 RP32 64 RP32F 64 RP32F 64 RP45 64 RP45F 64 RP62 64 RP62F 64 RP62F 65 RP30F 65
RP32 64 RP32F 64 RP45 64 RP45 64 RP45F 64 RP62 64 RP62F 64 RP62F 65 RP30F 6
RP32F 64 RP45 64 RP45 64 RP45F 64 RP62 64 RP62F 64 RP62F 65 RP30F
RP45 64 RP45F 64 RP45F 64 RP62 64 RP62F 64 4914 65 4920 65 4929 65 4930 65 4930 65 4930 65 4949 65 4955 65 4959 65 4959 65 4946 65 4910 65 4910 65 4947 65 4947 65 4947 65 4947 65 4947 65
RP45F 64 RP62 64 RP62 64 RP62F 64 4914 65 4920 65 4929 65 4930 65 4930F 65 4949 65 4955 65 4959 65 4945 65 4946 65 4910 65 4947 65 4947 65 4948 65 4957F 65 4932 65 4952 65
RP62 64 RP62F 64 4914 65 4920 65 4929 65 4930 65 4930F 65 4949 65 4955 65 4959 65 4945 65 4946 65 4905 65 4947 65 4947 65 4947 65 4947 65 4948 65
RP62F 64 4914 65 4920 65 4929 65 4930 65 4930F 65 4949 65 4950 65 4955 65 4959 65 4945 65 4946 65 4905 65 4951 65 4947 65 4947 65 4948 65 4957 65 4948 65 4957 65 4948 65 4959 65
4914 65 4920 65 4929 65 4930 65 4949 65 4950 65 4955 65 4959 65 4959 65 4945 65 4946 65 4910 65 4943F 65 4943F 65 4943F 65 4957F 65 4952 65
4920 65 4929 65 4930 65 4930F 65 4949 65 4950 65 4955 65 4959F 65 4945 65 4946 65 4910 65 4951 65 4943F 65 4947F 65 4957F 65 4952 65
4929 65 4930 65 4930F 65 4949 65 4950 65 4955 65 4959 65 4945 65 4946 65 4910 65 4951 65 4943F 65 4943F 65 4957F 65 4952 65
4930 65 4930F 65 4949 65 4950 65 4955 65 4959 65 4959F 65 4945 65 4946 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4930F 65 4949 65 4950 65 4955 65 4959 65 4959F 65 4945 65 4946 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4949 65 4950 65 4955 65 4959 65 4959F 65 4945 65 4946 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4950 65 4955 65 4959 65 4959F 65 4945 65 4946 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4955 65 4959 65 4959F 65 4945 65 4946 65 4905 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4959 65 4959F 65 4945 65 4946 65 4905 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4959F 65 4945 65 4946 65 4905 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4945 65 4946 65 4905 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4946 65 4905 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4905 65 4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4910 65 4951 65 4943F 65 4957F 65 4932 65 4952 65
4951 65 4943F 65 4957F 65 4932 65 4952 65
4943F 65 4957F 65 4932 65 4952 65
4957F
4932 65 4952 65
495265
4646 65
461165
465565
461865
462265
462465
3M™ VHB™ Tape for Appliances
494169
595269

RP45.....69

Product	Page
3M [™] VHB [™] Tape for Commercial Vehic	
and Trailers	
CV45F	
CV62F	66
3M™ VHB™ Tape fo Electronics	or
5908	69
5915	69
5925	69
5952	69
RP16	69
RP45	69
3M™ VHB™ Tape fo Sign and Display	or
5952	68
5952WF	68
5962	68
4910	68
4941	68
4956	68
3M™ VHB™ Tape fo Windows and Doo	
G45P	68
G45F	68
B45F	68
3M™ VHB™ Thin Fo Tapes	oam
5906	66
5907	66
5908	66
5909	66
86415	66
86420	66
86425	66
86430	66
4914-15	66
4914-20	66
4914	66
Scotch® ATG Tran Tapes	sfer
976	82
969	82
926	82
970XL	82
924	82
987	82
928	82

Solvent and Water Based Adhesives
554
1054
2054
2454
2754
60 CA54
7054
7254
7454
74 CA54
7554
7654
Super 77™54
Super 77™ CA54
7854
78ET54
78HT54
8054
9054
90 CA54
9254
94 ET54
94 CA54
82654
84756
847H56
109956
1099L56
130056
1300L56
135756
1357L56
226256
447556
449156
455056
469356
479956
74NF56
98NF56
30NF56
30H56
4956
100NF56
1000NF56
2000NF56
4224NF56
156

Product

Page

5925WF.....64

5930.....64

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