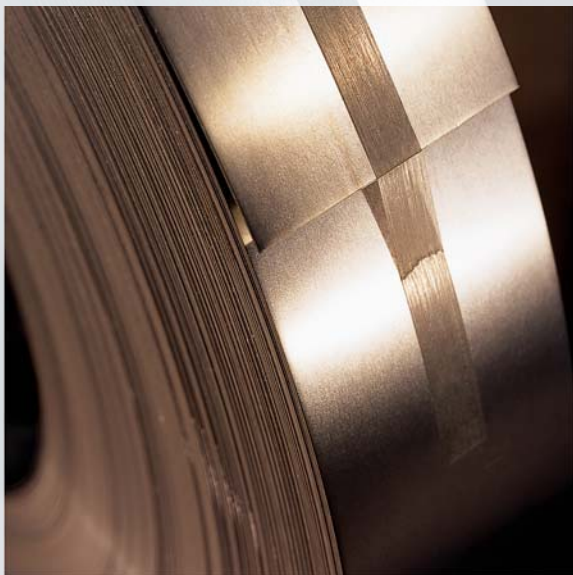


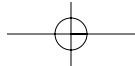
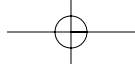
**Scotch®**

# High Strength Tapes

*High strength solutions for product and package integrity*



**3M** *Innovation*



*3M has high strength, reliable and affordable solutions for virtually any packaging, bundling, or reinforcing challenge. Whether it's closing boxes, stabilizing pallets, securing appliance components during transportation, or providing tear strips on courier parcels, we have the tape for you.*



## Box Closing Pages 2-3

- Wide range of product constructions exhibiting an excellent balance of tensile strength and adhesive holding power
- An alternative to staples, strapping, and glues for closing non-typical box and carton styles



## Bundling and Reinforcing Pages 4-5

- High impact and cut resistance
- Exceptional tensile strength
- Heavy-duty, industrial design



## Easy Access Pages 6-7

- Gives consumers easy access to packaged goods
- Wide selection for use on paperboard and corrugated fiberboard products
- Popular alternative to traditional opening methods



## Clean Removal Pages 8-9

- Removes cleanly from almost any surface
- Popular for securing modular appliance parts and electronic components during shipping
- Great for tabbing metal coils

## Scotch® Box Closing Solutions

Scotch high performance filament and film strapping tapes secure your package with maximum holding power and durability. Whether you are sending small or medium size parcels, such as books or electronics, or transporting large merchandise, such as large home appliances or furniture, these Scotch products make practical alternatives to less reliable, traditional closure methods. When closing a box or carton style, other than Regular Slotted Cartons (RSCs), such as a full overlap, five panel folder, or a full telescope carton, Scotch filament tapes are the preferred solution. Their exceptionally strong filament reinforcement combined with unsurpassed holding power, even under extreme conditions, provides you with safe, cost-effective solutions for a variety of packaging applications.



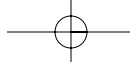
### Scotch® Filament Tape 8988

3M developed this solution to provide long lasting closures on hard-to-adhere-to recycled corrugated fiberboard. Traditional pressure-sensitive adhesive systems just can't maintain their holding power on high recycled content corrugated surfaces. Scotch Filament Tape 8988 has a heavy duty film backing reinforced with low stretch glass yarn filaments to provide a tight, long-lasting closure.



### Scotch® High Strength Filament Tape 890

This heavy duty, high performance tape was designed especially for holding the lift flap in place on Basiloid containers. With glass yarn filaments, it provides exceptionally high tensile strength, low stretch levels, and high impact resistance. Scotch High Strength Filament Tape 890 is the manufacturers' choice for vertical stacking in warehousing operations where racking is not feasible and fast loading for rail and truck transport is required.



#### **Scotch® Filament Tape 898**

An excellent choice for “L” clip closures or “C” clip reinforcement of light to heavy duty corrugated boxes. Its high tensile strength combined with an excellent balance of initial adhesion and adhesive shear properties provide an exceptionally well-balanced tape construction.



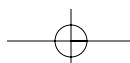
#### **Scotch® Reinforced Strapping Tape 8651**

This polypropylene filament reinforced clear strapping tape is perfect for “L” clip closures of packages bearing important graphics. Barcodes are still scannable, virtually error free, through Scotch Reinforced Strapping Tape 8651. With its high strength polypropylene backing and patented continuous monofilament ribs, this tape resists breakage even if nicked or punctured during handling. Its adhesive system is formulated for use on printed or recycled paperboard and corrugated fiberboard surfaces.



#### **Scotch® Bi-Directional Filament Tape 8959**

For cartons requiring extra strength in a closure solution, this bi-directional glass filament reinforced tape provides strength in both directions. Its bi-directional filaments allow it to resist center seam splitting when used as a single strip closure or “H” seal closure on heavy duty single, double, or triple wall regular slotted containers (RSCs). Scotch Bi-Directional Filament Tape 8959 provides exceptionally high adhesion to most corrugated fiberboard substrates.



## Scotch® Bundling and Reinforcing Solutions

3M has developed a wide range of high strength tapes specifically designed for the bundling and reinforcing challenges faced in the industrial marketplace. Applications for these high performance products can vary dramatically—from tabbing the end lap of metal coils to stabilizing pallets to reinforcing large bulk containers or just a single carton. Their balance of tensile strength and adhesive holding power, even under extreme conditions, provides secure, cost-effective solutions for a variety of strapping, bundling, and reinforcing applications.



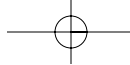
### Scotch® Stretchable Tape 8884

Scotch Stretchable Tape 8884 is perfect for securing goods on pallets. It provides extremely good pallet stability for applications such as intra-plant movements of goods. And Scotch Stretchable Tape 8884 won't damage graphics on cartons when applied. When optimally stretched to 500%, this linear low-density polyethylene film backed tape is an excellent choice for light to medium duty pallet containment.



### Scotch® Filament Tape 898

This high performance glass reinforced tape features an aggressive high shear rubber resin adhesive. Its construction makes it especially effective for the reinforcement of heavy corrugated fiberboard boxes. Scotch Filament Tape 898 is extremely nick, abrasion, and moisture resistant to provide excellent performance in the roughest shipping and handling conditions.



#### **Scotch® Filament Tape 880NR**

This filament tape features a polyester film backing reinforced with polyester yarn to provide excellent impact and cut resistance. Typical applications include the bundling of heavy or sharp objects, such as tubing, rods, and lumber, and tabbing the end lap of large metal coils. Its specially formulated rubber resin adhesive bonds with high initial adhesion, high shear strength, and excellent, long term adhesion on fiberboard and metals.



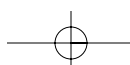
#### **Scotch® Reinforced Strapping Tape 862**

Scotch 862 polypropylene monofilament reinforced strapping tape is specifically formulated to provide high adhesion to PVC, metallic, and fiberboard surfaces. The patented polypropylene ribbing makes the tape extremely nick, abrasion, and moisture resistant. Its UV resistance (in black only) makes it a preferred choice for bundling and storing products, such as plastic and metal piping.



#### **Scotch® Filament Tape 892**

This general purpose tape reinforced with glass yarn filaments is popular for strapping and bundling. Scotch Filament Tape 892 provides good initial adhesion and excellent holding power on most surfaces. Its clear polypropylene backing is nick, abrasion, and scuff resistant.



## Scotch® Easy Access Solutions

Tear strip tapes allow consumers “easy access” to shipped goods by eliminating the need for a knife or scissors when opening parcels and envelopes. 3M offers not just one, but a wide selection of tear strip tapes for use on paperboard and corrugated fiberboard packaging materials. Easy access tapes are economical, attractive, and increasingly popular alternatives to traditional opening methods.



### Scotch® Tear Strip Tape 8626

Scotch Tear Strip Tape 8626 is designed for medium to heavy weight corrugated fiberboard. Its tensilized polypropylene backing provides superior tensile strength for high pull-rate success in tear strip opening applications. It is also excellent for products that must remain functional after opening, such as household detergent boxes.

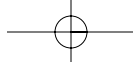


### Scotch® Tear Strip Tape 8618

This high performance tear strip tape is great on boxes containing heavy electronic products. Its rubber resin adhesive bonds to most paperboard and corrugated fiberboard surfaces, including those with high recycled content. Reinforced with continuous polyester filaments, it resists breakage and insures extremely high pull-rate success in the most demanding convenience opening applications.





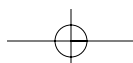


**Scotch® Tear Strip Tape 8624**

This is a tensilized polypropylene tape designed for light to medium weight corrugated fiberboard. It's a perfect choice for CD mailers, books, and overnight courier packages.

**Scotch® Tear Strip Tape 8621**

A tensilized polypropylene tape reinforced with continuous polypropylene monofilaments, this tear strip tape is an ideal choice for overnight courier envelopes and mail order boxes. Its rubber resin adhesive bonds to most paperboard and corrugated fiberboard surfaces, including recycled materials. And it has superior resistance to edge nicking and tearing compared with other film tear strip tapes without reinforcement.



## Scotch® Clean Removal Solutions

Today's transportation environment mandates packaging methods requiring extremely high strength tapes that leave no residue when removed. 3M offers a variety of tapes specially designed to remove cleanly, without staining, from a number of substrates, including painted and unpainted metal, vinyl, glass, and various plastic surfaces. These tapes are popular for securing modular appliance parts during transportation, such as refrigerator doors, and for the tabbing of metal coils. Their exceptionally strong film backings or filament reinforcement and holding power combined with their clean removability, make these tapes safe, cost-effective solutions for a variety of holding and protection applications.



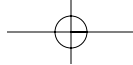
### Scotch® Filament Tape 8896

This high performance clean removal tape utilizes a tensilized polypropylene film backing for high tensile strength. It is ideal for use in the appliance industry to secure and stabilize moving or loose parts during shipping. Its rubber resin adhesive bonds firmly to many surfaces, including metal and plastic, but doesn't leave a residue when removed.



### Scotch® Filament Tape 8919

If maximum impact resistance is required for heavy duty applications, such as securing hinged appliance doors or parts during shipping, this tape reinforced with high strength, low stretch glass filaments provides the solution. Scotch Filament Tape 8919 is also popular for securing the end lap of steel or aluminum coils, and doesn't leave a residue when removed. Its thick film backing is easy to handle and dispense, and provides excellent resistance to abrasion, moisture, and scuffing in the most demanding rough handling conditions.



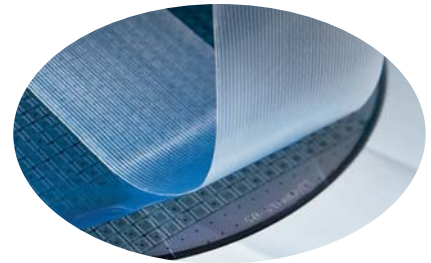
#### **Scotch® Filament Tape 8916**

As a high performance tape, reinforced with continuous glass filaments, this tape is preferred by appliance manufacturers and the shipping industry because of its clean removability, excellent holding power, and affordability. Its specially formulated rubber resin adhesive resists staining on most surfaces, including powder coated paint finishes.



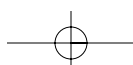
#### **Scotch® Filament 8898**

A popular choice in the electronics industry, this tensilized polypropylene film strapping tape has high strength and removes cleanly. Its adhesive bonds firmly to many plastic surfaces, such as those found on computers, but doesn't leave a residue when removed.



#### **Scotch® Wafer Grinding De-Tape 8653**

This specialized monofilament reinforced tape is preferred by the semiconductor industry for wafer grinding de-taping applications. It has a high level of adhesion to the film tapes used to protect semiconductor wafers during the grinding operation. And its backing resists breakage and is less prone to tearing than other tapes used in the de-taping process.



## Box Closing Tapes



Tape No.	Backing Color	Backing	Reinforcement	Adhesive	Elongation at Break	Tensile (lbs/in)	Adhesion (oz/in)	Thickness (mils)
863	Clear	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	155	60	5.0
864	Clear	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	190	67	5.6
865	Clear	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	240	74	6.4
892	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	170	60	6.0
893*	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	300	60	6.4
896	White	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	240	60	6.4
898*	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	380	70	6.4
8651	Clear	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	175	N/A	5.6
8959	Clear	Polypropylene film	Bi-directional glass yarn	Synthetic rubber resin	6%	150/50	100	5.7
8981*	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	380	70	6.4
8988*	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	380	N/A	6.7

\*The information for this product is based on limited production data from 3M's transition to environmentally reformulated products using 3M's solventless adhesive coating processes.

## Easy Access Tapes



Tape No.	Backing Color	Backing	Reinforcement	Adhesive	Elongation at Break	Tensile (lbs/in)	Adhesion (oz/in)	Thickness (mils)
8612	Clear	Scotchpar™ film	Polyester yarn	Natural rubber resin	15%	213	22	N/A
8618	Clear	Scotchpar™ film	Polyester yarn	Natural rubber resin	15%	213	20	N/A
8621	White	Tensitized polypropylene film	Polypropylene monofilaments	Synthetic rubber resin	30%	160	64	N/A
8624	Blue	Tensitized polypropylene film	None	Synthetic rubber resin	30%	160	65	4.5
8626	Ivory	Tensitized polypropylene film	None	Synthetic rubber resin	30%	220	75	6.2
8648	Clear	Scotchpar™ film	Polyester yarn	Natural rubber resin	15%	240	21	N/A

## Bundling and Reinforcing Tapes



Tape No.	Backing Color	Backing	Reinforcement	Adhesive	Elongation at Break	Tensile (lbs/in)	Adhesion (oz/in)	Thickness (mils)
862	Clear/Black	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	120	50	4.6
863	Clear	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	155	60	5.0
864	Clear	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	190	67	5.6
865	Clear	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	240	74	6.4
880*	Clear	Scotchpro™ film	Polyester	Synthetic rubber resin	15%	265	70	8.4
880NR	Clear	Scotchpar™ film	Polyester	Natural rubber resin	15%	265	60	8.0
890*	Clear/Black	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	600	70	8.4
892	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	170	60	6.0
893*	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	300	60	6.4
894*	Black	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	300	60	6.4
896	White	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	240	60	6.4
897	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	170	60	6.0
898*	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	380	70	6.4
898NR	Clear	Scotchpar™ film	Glass yarn	Natural rubber resin	3%	380	50	6.0
8981*	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	380	70	6.4
8884	Clear	Linear low density polyethylene	None	Synthetic rubber resin	710%	20	59	5.0
8886	Clear	Linear low density polyethylene	None	Synthetic rubber resin	720%	28	56	7.0
8898	Blue/Ivory	Tensitized polypropylene	None	Synthetic rubber resin	25%	160	65	4.5
8959	Clear	Polypropylene film	Bi-directional glass yarn	Synthetic rubber resin	6%	150/50	100	5.7

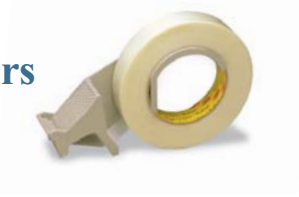
\*The information for this product is based on limited production data from 3M's transition to environmentally reformulated products using 3M's solventless adhesive coating processes.

## Clean Removal Tapes

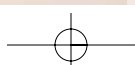
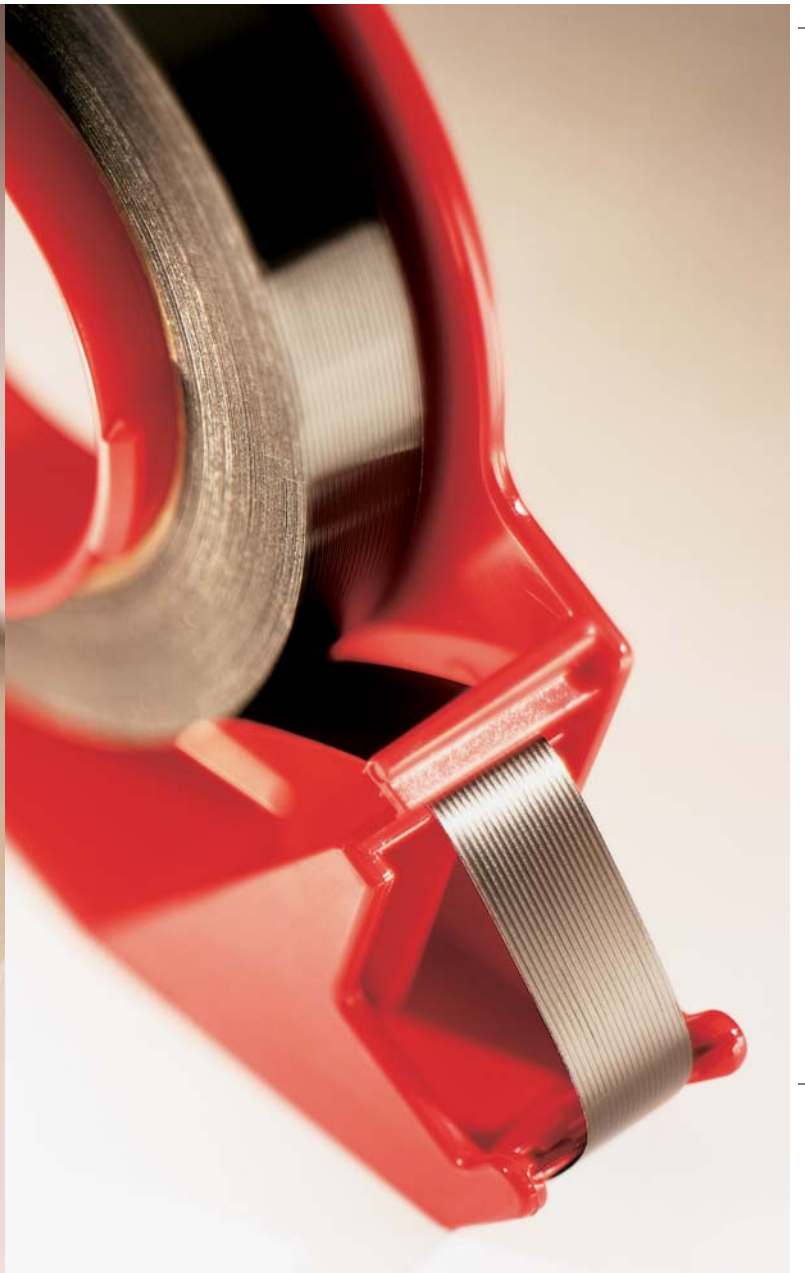
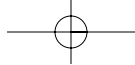


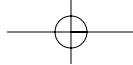
Tape No.	Backing Color	Backing	Reinforcement	Adhesive	Elongation at Break	Tensile (lbs/in)	Adhesion (oz/in)	Thickness (mils)
8915	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	170	60	6.0
8916	Clear	Scotchpro™ film	Glass yarn	Synthetic rubber resin	3%	170	65	6.0
8919	Clear	Scotchpar™ film	Glass yarn	Natural rubber resin	3%	380	70	7.0
8896	Blue/Ivory	Tensitized polypropylene	None	Synthetic rubber resin	25%	160	40	4.5
8898	Blue/Ivory	Tensitized polypropylene	None	Synthetic rubber resin	25%	160	65	4.5
8653	Clear	Tensitized polypropylene	Polypropylene	Synthetic rubber resin	30%	240	75	6.5

## Tape Dispensers



Tape No.	Product Description	Product Recommendations	Applications	Max. Tape Width
H-10	Durable plastic tape dispenser	All high strength tapes	Box closing, bundling & reinforcing	24mm
H-12	Features a hand brake to add tension to the tape roll	All high strength tapes	Box closing, bundling & reinforcing	24mm
H-38	Stretchable tape dispenser	8884, 8886	Pallet stabilization & load containment	38mm
H-120	Durable metal hand dispenser	All high strength tapes	Box closing, bundling & reinforcing	24mm
H-128	Heavy duty durable metal hand dispenser	8959, 890	Heavy duty box closing	48mm
H-130	Tape dispenser with hand brake	All high strength tapes	Box closing, bundling & reinforcing	18mm
H-131	Applies an 'L' clip of tape with a one handed motion	All filament tapes	Box closing	18mm
H-133	An economical dispenser that applies 'L' clips with a one handed motion	All filament tapes	Box closing	18mm
M-82	Definite length dispenser delivers 36mm to 384mm length of tape	All high strength tapes	Definite length of clean removal and box closing tapes	96mm
S-634	Applies 'L' clips of tape to a box as it's slid across the sealer's top surface	All high strength tapes	Box closing	18mm
S-857	Semi-automatic dispenser applies 'L' clips to a wide variety of box shapes and sizes	All filament tapes	Box closing	24mm





**Product Use:** User is responsible for determining whether the product is fit for a particular purpose and suitable for user's application.

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3M warrants its tapes will be free from defects in materials and manufacture. If a tape is proved to be defective, then the exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace the quantity of the tape which is proved to be defective or to refund the purchase price.

**Limitation of Liability:** 3M and seller shall not be liable for direct, indirect, special, incidental or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

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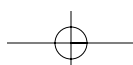
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