

Product Data Sheet

Updated : Sept. 2002 Supersedes : March 1996

Product Description

4905 is a clear acrylic VHB tape. It is colourless making it ideal for bonding transparent materials or for applications where a coloured bond line is unacceptable. These tapes have somewhat lower peel, tensile and shear performance than most other VHB due to their inherent softness.

Physical Properties Not for specification purposes	Adhesive Type	Acrylic	
	Thickness (ASTM D-3652)		
	Таре	0.50 mm	
	Liner	0.13 mm	
	Total	0.63 mm	
	Density	960 kg/m³	
	Release Liner	Filmic (Red)	
	Tape Colour	Clear	This tape product is clear in colour but NOT guaranteed to be optically clear.
	Shelf Life	24 months from date of despatch by 3M when stored in the original carton at 20°C & 50 % Relative Humidity	

Performance	Peel Adhesion to	21 N/10mm
Characteristics Not for specification purposes	Stainless Steel 90° peel @ room temp, 72 hr dwell, jaw speed 300mm/min	
	Normal Tensile (T- Block) to Aluminium at room temp, 6.45 sq cm, jaw speed 50 mm/min	690 kPa
	Static Shear Strength ¹ / ₂ sq inch overlap on Stainless Steel 1000 minutes	1000g at 22°C 500g at 66°C 500g at 93°C
	Temperature Performance Max (hours/minutes) Max Continuous (days/weeks)	150 °C 90 °C
	UV Light Resistance	No change in clarity was seen after 346 hours QUV.

			Date : Sept. 2002 VHB™ Acrylic Foam Tape 4905F
Surfaces	This product bonds to high energy surfaces such as glass, acrylic sheet and metals.	Painted surfaces and varnishes should be evaluated.	Bonding to Polypropylene and rubbers is not recommended.
Application Techniques	 Bond strength is dependent upon the amount of adhesive-to- surface contact developed. Firm application pressure develops better adhesive contact & thus improves bond strength. To obtain optimum adhesion, the bonding 	surfaces must be clean dry and well unified. A typical surface cleaning solvent is isopropyl alcohol & water. Use proper safety precautions for handling solvents. 3. Ideal tape application temperature range is 20°C to 40°C.	Initial tape application to surfaces at temperatures below 10°C is not recommended because the adhesive becomes too firm to adhere readily. However once properly applied low temperature holding is generally satisfactory.
Applications	VHB Joining Systems are suited for use in many interior and exterior industrial applications. In many situations, they can replace rivets, spot welds, liquid adhesives, and other permanent fasteners. Eac product in the VHB family has specific strengths. These can include high tensile, shear and peel adhesion and resistance to solvents, moisture and plasticiser migration. All VHB fasteners should be thoroughly evaluated by the user under actual use conditions with intended substrates, especially if expected use involved extreme environmental conditions.	 h polyethylene, polypropylene, teflon, silicones and other low surface energy materials. p Plasticised vinyl bonding is dependent upon the types and concentrations of plasticisers which can 	Galvanised surfaces are potential problems and should be carefully evaluated. To prevent corrosion on copper and brass, only lacquer coated material should be used with VHB Joining Systems. Thorough evaluations are recommended when bonding is required to any questionable surface.
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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications.

This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



Tapes & Adhesives

3M United Kingdom PLC 3M House, 28 Great Jackson Street, Manchester, M15 4PA

Product Information :

Tel 0870 60 800 50 Fax 0870 60 700 99 3M Ireland 3M House, Adelphi Centre, Upper Georges Street, Dun Laoghaire, Co. Dublin, Ireland

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Customer Service :

Tel (01) 280 3555 Fax (01) 280 3509

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