

3M™

VHB™ Structural Glazing Tape

Technical Data

August, 2002

Product Description

3M™ VHB™ Structural Glazing Tape is a double-coated 0.090 in. (2.3 mm) pressure sensitive adhesive tape for bonding many painted metals, as well as unpainted metals, and higher surface energy plastics. 3M™ VHB™ Structural Glazing Tape is appropriate for applications, which demand a thicker conformable product.

Construction

Product	VHB™ Structural Glazing Tape
Adhesive:	Plasticizer resistant
Adhesive Carrier:	Acrylic Foam (closed cell)
Thickness:	0.090 in. (2.3 mm)
Density:	45 lb./ft. ³ (720 kg/m ³)
Liner:	Red polyethylene film
Tape Color:	Gray

Typical Physical Properties and Performance Characteristics

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

Peel Adhesion: (stainless steel)	20 lb./in. width (350 N/100 mm)
Normal Tensile: (aluminum T-block)	60 lb./in. ² (415 kPa)
Dynamic Shear: (stainless steel)	65 lb./in. ² (450 kPa)
Static Shear: (stainless steel)	72°F (22°C) 1000 g/0.5 sq. in. (holds 10,000 min.)
	150°F (66°C) 500 g/0.5 sq. in. (holds 10,000 min.)
	200°F (93°C) 500 g/0.5 sq. in. (holds 10,000 min.)
Solvent Resistance:	High
Shelf Life:	24 months from date of manufacture (stored in original cartons, 70°F [21°C]/50% RH)
Temperature Resistance:	
Short Term: (Minutes, hours)	250°F (121°C)
Long Term: (Days, weeks)	200°F (93°C)

Available Sizes

Standard Length:	6 yards (5.4 m)
Minimum Width:	1/2 in. (12.7 mm)
Slitting Tolerance:	± 1/32 in. (0.8 mm)
Core Size (ID):	3.0 in. (76.2 mm)

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Application Guidelines

For maximum bond strength the surfaces should be thoroughly cleaned with a 50:50 mixture of isopropyl alcohol and water. Consult manufacturers directions for use and precautions when using cleaning solvents. Ideal tape application is accomplished when temperature is between 70° and 100°F (21° and 38°C) and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/bonding. Address correspondence to: 3M Bonding Systems Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-2180.

Certification/Recognition

MSDS: 3M has not prepared an MSDS for this product which is not subjected to the MSDS requirements of the Occupational Safety and Health Administration® Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, the product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, is exempt from inventory listing requirements.

Important Notice

The statements and technical information contained herein are based on tests and data which 3M believes to be reliable, but the accuracy or completeness of such statements and technical information is not guaranteed. User is responsible for determining whether a specific 3M™ VHB™ Tape is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limited Warranty

3M warrants for 24 months from the date of manufacture that 3M™ VHB™ Tape will be free of defects in material and manufacture. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This Limited Warranty does not cover damage resulting from the use or inability to use 3M™ VHB™ Tape due to misuse, workmanship in application, or application or storage not in accordance with 3M recommended procedures.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.

ISO 9002

This Bonding Systems Division product was manufactured under a 3M quality system registered to ISO 9002 standards.

