



VHB™ Acrylic Foam Tapes

RP16 • RP25 • RP32 • RP45 • RP62

Technical Data

January, 2010

Product Description 3M™ VHB™ Acrylic Foam Tapes RP16, RP25, RP32, RP45 and RP62 are double-sided pressure sensitive adhesive tapes for bonding a variety of substrates including many metal, plastic and painted materials.

Product Construction	Adhesive:	Multi-Purpose Acrylic										
	Adhesive Carrier:	Conformable Acrylic Foam (closed cell)										
	Thickness:	<table border="0"> <tr> <td>3M™ VHB™ Tape RP16</td> <td>0.016 in. (0.4 mm)</td> </tr> <tr> <td>3M™ VHB™ Tape RP25</td> <td>0.025 in. (0.6 mm)</td> </tr> <tr> <td>3M™ VHB™ Tape RP32</td> <td>0.032 in. (0.8 mm)</td> </tr> <tr> <td>3M™ VHB™ Tape RP45</td> <td>0.045 in. (1.1 mm)</td> </tr> <tr> <td>3M™ VHB™ Tape RP62</td> <td>0.062 in. (1.55 mm)</td> </tr> </table>	3M™ VHB™ Tape RP16	0.016 in. (0.4 mm)	3M™ VHB™ Tape RP25	0.025 in. (0.6 mm)	3M™ VHB™ Tape RP32	0.032 in. (0.8 mm)	3M™ VHB™ Tape RP45	0.045 in. (1.1 mm)	3M™ VHB™ Tape RP62	0.062 in. (1.55 mm)
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	3M™ VHB™ Tape RP45	0.045 in. (1.1 mm)										
3M™ VHB™ Tape RP62	0.062 in. (1.55 mm)											
Density:	45 lb./ft. ³ (720 kg/m ³)											
Liner:	White DK paper (black 3M™ VHB™ print)											
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)	3M™ VHB™ Tape RP16	12 lb./in. width (210 N/100 mm)
	3M™ VHB™ Tape RP25	17 lb./in. width (300 N/100 mm)
	3M™ VHB™ Tape RP32	18 lb./in. width (315 N/100 mm)
	3M™ VHB™ Tape RP45	20 lb./in. width (350 N/100 mm)
	3M™ VHB™ Tape RP62	20 lb./in. width (350 N/100 mm)
Normal Tensile: (alum T-block)	3M™ VHB™ Tape RP16	95 lb./in. ² (655 kPa)
	3M™ VHB™ Tape RP25	90 lb./in. ² (620 kPa)
	3M™ VHB™ Tape RP32	85 lb./in. ² (585 kPa)
	3M™ VHB™ Tape RP45	85 lb./in. ² (585 kPa)
	3M™ VHB™ Tape RP62	80 lb./in. ² (550 kPa)
Dynamic Shear: (stainless steel)	3M™ VHB™ Tape RP16	90 lb./in. ² (620 kPa)
	3M™ VHB™ Tape RP25	80 lb./in. ² (550 kPa)
	3M™ VHB™ Tape RP32	75 lb./in. ² (515 kPa)
	3M™ VHB™ Tape RP45	70 lb./in. ² (480 kPa)
	3M™ VHB™ Tape RP62	70 lb./in. ² (480 kPa)
Static Shear: (stainless steel)	72°F (22°C)	1000 g/0.5 sq. in. (holds 10,000 min.)
	158°F (70°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	
Temperature Resistance:		
	Short Term (minutes, hours):	250°F (121°C)
	Long Term (days, weeks):	200°F (93°C)

Available Sizes

Standard Length:	3M™ VHB™ Tapes RP16, RP25, RP32	72 yds. (65.8 m)
	3M™ VHB™ Tapes RP45, RP62	36 yds. (32.9 m)
Minimum Width:	1/2 in. (12.7 mm)	
Slitting Tolerance:	± 1/32 in. (0.8 mm)	
Core Diameter (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. Ideal tape application is accomplished when temperature is between 70°F and 100°F (21°C 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.

*Consult manufacturer's directions for use and precautions when using cleaning solvents. This cleaning recommendation may not be compliant with the rules of certain Air Quality Management Districts in California; consult applicable rules before use.

Storage Store in original cartons at 70°F (21°C) and 50% relative humidity.

Shelf Life When stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

Technical Information The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for 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. AN APPLICATION WARRANTY EXPRESSLY APPROVED AND ISSUED BY 3M IS AN EXCEPTION. THE CUSTOMER MUST APPLY FOR A SPECIFIC APPLICATION WARRANTY AND MEET ALL WARRANTY AND PROCESS REQUIREMENTS TO OBTAIN AN APPLICATION WARRANTY. CONTACT 3M FOR MORE INFORMATION ON APPLICATION WARRANTY TERMS AND CONDITIONS.

Limitation of Remedies and Liability If the 3M™ VHB™ Tape is proved to be defective within the warranty period stated above, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M™ VHB™ TAPE. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

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