



VHB™ Acrylic Foam Tapes

RP16 • RP25 • RP32 • RP45 • RP62

Product Data Sheet

January 2013
Supersedes: July 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.

Construction

	RP16	RP25	RP32	RP45	RP62
Thickness (mm) acc. to ASTM D3652	0.4	0.6	0.8	1.1	1.57
Release Liner	Paper / Film				
Tape Colour	Gray				
Foam Density	720 kg/m ³				
Adhesive Type	Multi-Purpose Acrylic				
Adhesive Carrier	Conformable Acrylic Foam (closed cell)				

Performance Characteristics

	RP16	RP25	RP32	RP45	RP62
Adhesion to Stainless Steel (N/100 mm) acc. to ASTM D3330 on stainless steel at 90° peel angle	210	280	315	350	350
Tensile Strength (kPa) acc. to ASTM D897 on stainless steel	655	620	585	585	550
Dynamic Shear (kPa) acc. to ASTM D1002 on stainless steel	620	550	515	480	480
Static Shear acc. to ASTM D3654 Weight held for 10,000 minutes to stainless steel	22°C		1000 g/inch ²		
	70°C		500 g/inch ²		
	93°C		500 g/inch ²		
Temperature Performance acc. to ASTM D1002 on stainless steel, dwelled 4 hrs at elevated temperature with 100 g weight	Short term (minutes, hours):			121°C	
	Long term (days, weeks):			93°C	
Solvent Resistance	High				

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 21°C and 38°C and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 10°C is not recommended.
Storage	Store in original cartons at 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.
For Additional Information	To request additional product information or to arrange for sales assistance, please see below for contact details.
Important Notice	<p>All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors 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 or application.</p> <p>All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law</p>

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

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