



VHBTM Acrylic Foam Tape

5704 5705 5708 5711

Technical Data Sheet

Temporary 2013.01

Product Description

3MTM VHBTM Acrylic Foam Tape 57XX series are double-coated pressure sensitive adhesive tapes for bonding bare metals, high surface energy plastics, most medium surface energy plastics and some painted materials. At room temperature 57XX offers good tack/quick stick, this can be very important in a wide range of applications where a more aggressive adhesive is desirable.

Construction

Adhesive:	General Purpose Acrylic	
Adhesive Carrier:	Acrylic Foam (close cell)	
Density:	820 kg/m ³	
Thickness		
	Tape	
	5704	0.4mm
	5705	0.5mm
	5708	0.8mm
	5711	1.1mm
	Liner	0.12mm
Release Liner	Red PE film	
Tape Color	White	
Shelf Life	24 months from date of manufacturing by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

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)

Peel Adhesion

(Stainless steel	5704	1.8N/mm
90 degree peel)	5705	2.0N/mm
	5708	2.3N/mm
	5711	2.7N/mm

VHB™ Acrylic Foam Tape

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		Dynamic Shear	
		5704	600kPa
(SS to SS)		5705	600kPa
		5708	550kPa
		5711	500kPa
Typical Physical Properties and Performance Characteristics (Continued)	Static Shear Strength		
	weight held for 10,000 mins to stainless	1000g @ 22°C	
	steel with 0.5 sq in (3.23 sq cm) overlap	500g @ 70°C	
	Temperature Resistance:		
	Long Term: (days, weeks)	185°F (85°C)	
		Short Term: (minutes, hours)	300°F (149°C)
Application Guidelines	For maximum bond strength, the surfaces should be thoroughly cleaned with a 50:50 mixture of isopropyl alcohol and water. Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact & thus improves bond strength. 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. Most high performance pressure sensitive acrylic adhesives have very low initial tack at temperatures below 15°C. VHB™ Acrylic Foam Tape 57XX was designed to allow assembly of parts in manufacturing plants above 32°F (0°C).		
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		



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