



VHB™ Tape 4734

page 1 of 3

Temporary Technical Data

Apr, 2011

Product Description

3M™ VHB™ Tape is consisted of high performance acrylic adhesives which have excellent long-term holding power. The peel adhesion and tensile holding power of these VHB™ tapes are significantly higher than corresponding urethane or other similar type of foam tapes.

Product Uses

VHB™ tapes are ideal for use in many interior and exterior industrial applications. The increased holding power provides better long term bonding than most other urethane or similar foam tapes. VHB™ tapes may be used to bond a variety of substrates, including most metals, sealed wood, as well as some plastics and painted surfaces.

Note: All tapes should be thoroughly evaluated by the user under actual conditions with intended substrates to determine whether a specific tape is fit for a particular purpose and suitable for user's method of application, especially if expected use involves extreme environmental conditions.

Construction

Product	VHB4734
Adhesive	Highly performing acrylic foam adhesive
Tape Thickness	0.48mm
- Tolerance	+/- 15%
Tape Color	White
Release Liner	0.08mm Printed Paper Liner

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.

Product	VHB4762
Peel Strength to SUS	<u>gf/12.7mm</u>
ASTM D3330	3,370
90°Peel Adhesion	
Room Temp. 72hr aging	
Jaw Speed : 305mm/min	
With AL Strip	
Dynamic Shear to SUS	Kgf/6.45cm ²
ASTM D1002	45.4
Jaw Speed : 12.7mm/min	
Room Temp. 72hr aging	
Static Shear	Grams
ASTM D3654	22 °C : 1,500
Weight that 12.7cmx12.7cm	66 °C : 500
overlap on stainless steel will	93 °C : 500
hold 10,000 minutes at the	
room temperature	
Shelf Life	12months from date of manufacture when stored in original cartons at room temperature & 50% RH

Application Technique

- Bond strength is dependent upon the amount of adhesive to surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength.
- To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or heptane. **Note :** Be sure to follow manufacturer's safety precautions and directions for use when using solvents.
- Ideal tape application temperature range is 70°F To 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

Application Ideas

- These products have been designed for general purpose mounting and joining applications where high internal strength is required and are ideal for many applications which involve high continuous shear loads.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 82-80-533-4114. Address correspondence to : Tape & Adhesive Division, 3M Korea LTD, Daehan Invest Trust BLDG 22nd Floor, Yoido Dong, Yongdeungpogu, Seoul, Korea. Our fax number is 82-2-786-7429

Important Notice

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product 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 TAO 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 TAO product. Given the variety of factors that can affect the use and performance of a 3M TAD product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M TAO product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limitation of Remedies and Liability

If the 3M product is provided to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF 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 theory asserted, including negligence, warranty, or strict liability.

ISO 9002

This Tape&Adhesive Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



Tape&Adhesive Division

3M Korea LTD, Daehan Invest Trust
BLDG 22nd, Yoido-Dong,
Yongdeungpo-Gu, Seoul
Korea
82-80-533-4114
www.3M.co.kr