



# VHB™ Acrylic Foam Tape 4991

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## Product Data Sheet

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Updated : Sept. 2002  
Supersedes : February 2001

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### Product Description

3M™ VHB™ Acrylic Foam Tape 4991 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. 3B VHB Acrylic Foam Tape 4991 is appropriate for applications which demand a thicker conformable products.

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### Physical Properties

Not for specification purposes

<b>Adhesive Type</b>	Plasticiser Resistant
<b>Thickness</b> (ASTM D-3652)	2.3 mm
<b>Foam Density</b>	720 kg/m <sup>3</sup>
<b>Adhesive Carrier</b>	Acrylic Foam (Closed Cell)
<b>Liner</b>	Red Polyethylene Film
<b>Tape Colour</b>	Grey
<b>Shelf Life</b>	24 months from date of manufacture when stored in the original carton at 20°C & 50 % Relative Humidity

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### Performance

#### Characteristics

Not for specification purposes

<b>Peel Adhesion to Stainless Steel</b>	35 N/10mm
<b>Static Shear Strength (Stainless Steel)</b>	1000 g @ 22°C 500 g @ 66°C 500 g @ 93°C
<b>Temperature Performance</b> Max (minutes/hours) Max Continuous (days/weeks)	120 °C 90 °C
<b>Normal Tensile (Aluminium T-Block)</b>	415 kPa
<b>Solvent Resistance</b>	High

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### **Additional Product Information**

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 20°C and 40°C and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 10°C is not recommended.

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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.



### **Tapes & Adhesives**

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