

3M[™] VHB[™] Tape 5909

Product Data Sheet

September 2015
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Product Description

3M[™] VHB[™] Tape 5909 is a thin foam tape with pressure sensitive adhesive on both sides, and are used for bonding a wide range of materials, including many paints and lower surface energy plastics in addition to metals and other plastics.

The foam is comfortable to increase contact with the surfaces.

This tape is similar to other products in the 3M[™] VHB[™] Tape 5952 family except thickness.

Key Features

- providing adhesion to the broadest range of substrates, including most powder coated paints
- conformability to slightly mismatched or rigid surfaces

Physical Properties

Adhesive Type	Modified Acrylate
Thickness ASTM D3652-01 Tape Liner Total (Tape + Liner)	0.30 mm ± 15% 0.08 mm 0.38 mm
Release Liner	Clear Polyester
Tape Colour	Black
Density	770 kg/m ³ ± 10%

Performance Characteristics

Adhesion to Steel ASTM D3330 (90° Peel, after 72h dwell time)	24 N/cm
Static Shear Strength ASTM D3654 10.000 min	23°C (1000g) 70°C (500g) 90°C (500g) 120°C (250g)
Dynamic Shear Strength ASTM D1002	850 kPa
Tensile Properties (T-Block) ASTM D897 (50mm / min)	890 kPa
Temperature Performance ASTM D4498-7 (SAFT)	120°C (Long Term) 150°C (Short Term)

Application Temperature

Ideal application temperature range is 21°C to 38°C. Pressure sensitive adhesives use viscous flow to achieve substrate contact area.

To obtain good performance with all 3M™ VHB™ Tapes, it is important to ensure that the surfaces are clean, dry and free of condensed moisture.

Shelf Life

All 3M™ VHB™ Tapes have a shelf life of 24 months from date of shipment when stored at 4°C to 38°C and 0-95% relative humidity. The optimum storage conditions are 22°C and 50% relative humidity.

Performance of tapes is not projected to change even after shelf life expires; however, 3M does suggest that 3M™ VHB™ Tapes are used prior to the shelf life date whenever possible.

For Additional Information

To request additional product information or to arrange for sales assistance, please see below for contact details.

Important Notice

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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

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