

3M Science.
Applied to Life.™

3M™ VHB™ Tapes

Who says it has
to be done in the
same old way?



Every day engineers and managers like you are discovering that 3M VHB tapes are beyond strong. When used in place of mechanical fasteners, they can help you do things you never thought possible.

3M™ VHB™ Tape

Applied to surfaces, never to part

Bonding product parts with precision, ease, reliability, and strength requires an approach that breaks the barriers of traditional construction elements. 3M VHB Tapes open up a world of possibilities eliminating rivets, screws, bolts, and welds and improving design construction, aesthetics and productivity. With unmatched strength, these tapes increase the overall durability and reliability of every product bond.

Experience the strength and reliability of 3M VHB Tapes.



Invisible bond

Enhance your design appearance with virtually invisible bonding – a game-changing approach for your design concepts. Explore new possibilities and use new, innovative materials to improve the look of your products while optimising performance, preventing bi-metallic corrosion and streamlining your production processes.



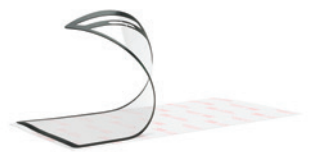
A durable difference

With a bond that's built to withstand the rigours of exposure, 3M VHB Tapes resist hot, cold and cycling temperatures, UV light, moisture, and solvents. They seal against environmental conditions and damp vibration to reduce metallic wear-and-tear.



Demanding strength

For your most demanding bonding applications, 3M VHB Tapes distribute dynamic or static stress over the entire surface of the design, improving holding strength and eliminating the need for mechanical fasteners.



Application efficiency

3M VHB Tapes are simple and easy to apply, saving you time and money. The tapes bond on contact, assemble easily and can be cut to precise shapes and sizes for custom applications.



3M VHB Tape has been providing customer bonding solutions since 1980

Applications, Innovations and unlimited design possibilities.

The proven, high strength alternative to mechanical fasteners

3M VHB tapes offer manufacturers a distinct bonding advantage by spreading stress loads across the entire length of the joint, permanently adhering materials with a powerful bond.

It's time to replace screws, rivets, welds and other traditional fasteners with a better solution – 3M VHB Tape.

Panel to Frame

Solve dynamic force challenges while reducing weight and producing a clean, sharp look.



Stiffener to Panel

Experience the freedom to create unique designs with exceptional vibration and corrosion resistance.



Lens Window to Housing

Apply a secure seal to dissimilar materials, while enhancing productivity and design innovation.



More Applications

Skyscrapers, mobile devices, signs, architectural windows, vehicles and trailers, all of these rely on 3M VHB tape for one or more steps in the assembly, mounting, fastening and sealing process.

Expertise and Support

Our application experts are here to consult with your team to determine the correct 3M VHB tapes for your product design and production process.

Our deep expertise in bonding dissimilar materials for challenging applications is unmatched. 3M stands alone in its capabilities, facilities and experience. Leverage our expertise to your competitive advantage.

Selecting the right 3M VHB Tape for your application is easy.

Online selector

Try our new selector to find the right 3M VHB product for your bonding needs <http://go.3M.com/tapeselector>

Call us

You can discuss your application and have your questions answered with one of our industrial representatives by calling 0870 60 800 50

Visit our website

For further information visit www.3M.co.uk/VHB

| 3M™ VHB™ Industrial Adhesives and Tapes | | Products | | | | | | | | | |
|--|--|--------------|----------------|--------|-----------------|---------------------------|-----------------------------|--------------------|----------------------|---------------------------------|---------------------------|
| | | Product code | Thickness (mm) | Colour | Certifications* | Temperature resistance °C | | Solvent resistance | Peel strength (N/cm) | Relative adhesion | |
| | | | | | | Long term (days, weeks) | Short term (minutes, hours) | | | Metals Glass MSE Plastics | Coated & Painted Surfaces |
| 3M VHB Very Conformable | | | | | | | | | | | |
| The conformability of the 3M VHB allows a more complete bond contact area when bonding rigid or irregular materials. These products offer excellent adhesion to the broadest range of substrates. The modified acrylic adhesive is especially developed for powder coated paints. (In many applications, the use of a primer is not necessary on most surfaces.) | | 5925 | 0.6 | ● | UL746C | +120 | +150 | high | 30 | high | high |
| | | 5952 | 1.1 | ● | UL746C | +120 | +150 | high | 38 | high | high |
| | | 5962 | 1.6 | ● | UL746C | +120 | +150 | high | 38 | high | high |
| 3M VHB Conformable | | | | | | | | | | | |
| The conformability of the 3M VHB allows a more complete bond contact area when bonding rigid or irregular materials. These products offer excellent adhesion to a broad range of substrates, including plasticised vinyl. | | 4926 | 0.4 | ● | UL746C | +93 | +150 | high | 24 | high | medium |
| | | 4936 | 0.6 | ● | UL746C | +93 | +150 | high | 30 | high | medium |
| | | 4941 | 1.1 | ● | UL746C | +93 | +150 | high | 38 | high | medium |
| | | 4956 | 1.6 | ● | UL746C | +93 | +150 | high | 38 | high | medium |
| | | 4991 | 2.3 | ● | UL746C | +93 | +120 | high | 38 | high | medium |
| | | 4919 | 0.6 | ● | UL746C | +93 | +150 | high | 30 | high | medium |
| | | 4947 | 1.1 | ● | UL746C | +93 | +150 | high | 38 | high | medium |
| 3M VHB Tapes For Special Applications | | | | | | | | | | | |
| 3M VHB Flame retardant: Black. Closed-cell acrylic foam carrier. Highly conformable. Excellent adhesion to painted and powder-coated surfaces. Flame retardant. | | 5958FR | 1.0 | ● | FAR 25.853 | +93 | +150 | high | 35 | high | high |
| 3M VHB for high temperatures: Dark grey. Closed-cell acrylic foam carrier. Resistant to high temperatures and powder-coating cycles. | | 4646 | 0.6 | ● | UL746C | +150 | +232 | high | 25 | high | low |
| | | 4611 | 1.1 | ● | UL746C | +150 | +232 | high | 31 | high | low |
| | | 4655 | 1.6 | ● | UL746C | +150 | +232 | high | 31 | high | low |
| White. Closed-cell acrylic foam carrier. Resistant to high temperatures and powder-coating cycles. | | 4613 | 1.1 | ○ | | +120 | +150 | high | 32 | high | low |
| 3M VHB for low temperatures: Grey. Closed-cell acrylic foam carrier. Conformable. Can be applied at low temperatures (5 °C) | | 4943 | 1.1 | ● | | +93 | +150 | high | 44 | high | medium |
| 3M VHB Clear: Transparent. Solid acrylic adhesive. Ideal for bonding transparent materials such as glass, polycarbonate and plastics. | | 4910 | 1.0 | ● | UL746C | +93 | +150 | high | 26 | high | medium |
| | | 4915 | 1.6 | ● | | +93 | +150 | high | 26 | high | medium |
| | | 4918 | 2.0 | ● | | +93 | +93 | high | 26 | high | medium |
| | | 4932 | 0.6 | ○ | | +71 | +93 | high | 35 | high | high |
| 3M VHB for low energy surfaces: White. Closed-cell acrylic foam carrier. Good adhesion to polyethylene and polypropylene. | | 4952 | 1.1 | ○ | | +71 | +93 | high | 44 | high | high |
| 3M VHB for high energy surfaces: White. Closed-cell acrylic foam carrier. Rigid. Excellent shear performance. | | 4920 | 0.4 | ○ | UL746C | +93 | +150 | high | 26 | high | low |
| | | 4930 | 0.6 | ○ | UL746C | +93 | +150 | high | 35 | high | low |
| | | 4950 | 1.1 | ○ | UL746C | +93 | +150 | high | 44 | high | low |
| | | 4912 | 2.0 | ○ | | +150 | +190 | high | 35 | high | low |
| | | 4945 | 1.1 | ○ | UL746C | +93 | +150 | high | 44 | high | low |
| | | 4949 | 1.1 | ○ | | +93 | +150 | high | 44 | high | low |
| 3M VHB RP. Close-cell acrylic foam carrier. Conformable bonding for glass, metal, some plastics, composites, sealed wood. | | RP25 | 0.6 | ● | | +93 | +120 | high | 30 | high | medium |
| | | RP45 | 1.1 | ● | | +93 | +120 | high | 35 | high | medium |
| | | RP62 | 1.6 | ● | | +93 | +120 | high | 35 | high | medium |

* A current list of UL certified 3M VHB Tapes can be found at www.ul.com (select certifications, search file MH17478)

Important notice: The information contained in this brochure is based on tests and data which 3M believes to be reliable, but the accuracy or completeness of such statements and information is not guaranteed. The user is responsible for determining whether a specific 3M VHB tape is suitable for the purpose intended and for the user's method of application. All questions of liability relating to 3M VHB tapes are governed by our terms of sale subject, where applicable to prevailing.

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