

3M VHB TAPE

5925

Product Description

3M VHB Tape 5925 is a 0.025 inch (0.6 mm) thick black double coated acrylic foam tape with PE film liner. The modified acrylic adhesive on both sides bonds to a broad range of high, medium and medium/low surface energy substrates including metals, glass and a wide variety of plastics and paints, including many powder coated paints. The very conformable foam provides good contact between substrates even when they are slightly mismatched. 3M VHB Tape 5925 is part of the 5952 tape family. Each product in this family has a modified acrylic adhesive and very conformable foam but varies in thickness, color and liner type.

Typical properties

Adhesive Type	Modified Acrylic
Application	Trim & Molding Attachment, Interior Mirror & Fixture Attachment
Brands	VHB
Core Size (Imperial)	3 in
Foam Type	Very Conformable
Indoor/Outdoor	Indoor/Outdoor
Industries	Appliance, General Industrial, Transportation, Construction, Signage, Metalworking, Electronics
Liner Material	Polyethylene Film
Maximum Operating Temperature (Celsius)	149 °C
Maximum Operating Temperature (Fahrenheit)	300 °F
Product Color	Black
Smallest Saleable Unit	Roll

Dimensions and Classifications

Overall Length (Imperial)	3.28 yd, 5.14 yd, 6.01 yd, 7.21yd, 36.09 yd maximum.
Overall Length (Metric)	3m, 4.7m, 5.5 m, 6.6 m, 33m maximum.
Overall Width (Imperial)	0.19in, 0.23in, 0.39in, 0.78in, 1.18in, 2.36in, 3.93in, 7.87in, 11.8in, 23.6in maximum.
Overall Width (Metric)	5mm, 6mm, 10mm, 20mm, 30mm, 60mm, 100mm, 200mm,300mm, 600mm maximum.

3M VHB Tape 5925 is a double-sided tape comprised of a multi-purpose modified acrylic adhesive with a conformable, foam core that delivers a total thickness of 25 mil (0.6 mm) when applied and requires no curing time. The advanced closed-cell acrylic technology offers secure bonding that performs on many painted and powder

coated surfaces. Engineered to be strong, it can replace rivets, welds, and screws while providing faster production by eliminating the need for drilling, welding, grinding, and project cleanup. Offering seamless joining and minimal surface preparation, this easy-to-use bonding method keeps surfaces smooth and aesthetically pleasing resulting in a professional application on thin, lightweight, and dissimilar materials. It performs in applications for short-term use (up to four hours) at a temperature up to 300 °F (149 °C) or long-term use withstanding up to 200 °F (93 °C). This tape balances strength, viscoelasticity, conformability, and adhesion to various materials, such as stainless steel. These attributes make 3M VHB Tape 5925 a reliable choice to take on a variety of bonding and sealing applications in transportation, appliance, electronics, construction, signage, and general industrial. Discover the many ways to apply the powerful bonding potential of 3M VHB Tape 5925.

Convenience Meets Extreme Bonding Power

Our 3M™ VHB™ Tape consists of a durable acrylic adhesive with viscoelastic properties. This provides an extraordinarily strong double sided foam tape that adheres to a broad range of substrates, including aluminum, stainless steel, galvanized steel, composites, plastics, acrylic, polycarbonate, ABS and painted or sealed wood and concrete. Our bonding tapes provide excellent shear strength, conformability, surface adhesion and temperature resistance. They are commonly used in applications across a variety of markets including transportation, appliance, electronics, construction, sign and display and general industrial. Reliably bonds a variety of materials with strength and speed for permanent applications.

Bond Build Rate:

After application, the bond strength will gradually increase as the adhesive flows onto to the surface (also referred to as “wet out”). The bond build rate will depend on both tape and substrate, but generally, at room temperature, approximately 50% of ultimate bond strength will be achieved after 20 minutes, 90% after 24 hours, and 100% after 72 hours. Adhesive flow is faster at higher temperatures and slower at lower temperatures. Ultimate bond strength can be accelerated (and in some cases bond strength can be increased) by exposure to elevated temperature (e.g. 66°C [150°F] for 1 hour). This can provide better adhesive wet out onto the substrates. Abrasion (~180 grit), or the use of primers/adhesion promoters can also increase both bond strength as well as the bond build rate.

Storage and Shelf Life

Store in original cartons at 4-38°C (40-100°F) and 0-95% relative humidity. Optimum storage conditions are 22°C (72°F) and 50% relative humidity. When stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.