Call a 3M Design Specialist

3M™ VHB™ Tape 4959 White, 1/2 in x 36 yd 120.0 mil, 18 per case

3M ID 70006097144 UPC# 00021200675034 Part Number 4959 3M Product Number 4959









Dream, Design, Deliver with our 3M™ VHB™ Tape 4959. It is a white, 0.120 in (3.0 mm), general purpose acrylic adhesive with a firm, foam core. It can replace rivets, welds and screws. The fast and easy to use permanent bonding method provides high strength and long-term durability. It offers design flexibility with its viscoelasticity and powerful ability to bond to a variety of surfaces.

- Fast and easy-to-use permanent bonding method provides high strength and long-term durability
- Virtually invisible fastening keeps surfaces smooth
- Can replace mechanical fasteners (rivets, welds, screws) or liquid adhesives
- White, 0.120 in (3.0 mm), general purpose adhesive and firm acrylic foam core offers a good balance of strength and conformability
- Eliminate drilling, grinding, refinishing, screwing, welding and associated clean-up
- Creates a permanent seal against water, moisture and more
- Pressure sensitive adhesive bonds on contact to provide immediate handling strength
- Allows the use of thinner, lighter weight and dissimilar materials

Where to Buy Where to Buy

Need Help?

Questions? We can help
Contact Us

- Overview
- Documents

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.

Recommended Applications

- Metal, glass and high surface energy (HSE) substrates
- Decorative material and trim

- Electronic displays
- Panel to frame
- Stiffener to panel

Dream, Design, Deliver with the 4950 Family of 3M™ VHB™ Tapes
3M™ VHB™ Tape 4959 is in the 4950 family of 3M™ VHB™ Tapes. This family of 3M™ VHB™ Tapes utilize a general purpose adhesive on both sides of a firm type foam core. They are specifically designed for good adhesion to metals, glass and other high surface energy materials. Applications for this tape include stiffener bonding, sealing polycarbonate lens over LCD, windows to painted control panels and mounting vinyl wiring ducts and conduit channels.

An Unconventional Foam Tape
We invented 3M™ VHB™ Tapes in 1980 as the first of their kind. These unique tapes combine conformability with a strong, permanent bond. The result is a family of extraordinarily strong tapes that adhere to a broad range of substrates. 3M™ VHB™ Tape is a proven alternative to screws, rivets, welds and other forms of mechanical fasteners. Skyscrapers, cell phones, electronic highway signs, refrigerators, architectural windows and more all rely on this specialty bonding tape for one or more steps in the assembly, mounting, fastening and sealing process. This trusted and reliable tape offers a consistent bond, outstanding durability and excellent solvent and moisture resistance. 3M stands by all of its products and is there to provide you with design guidance and technical support when you need it.

Proven Reliability from 3M™ VHB™ Tapes
3M™ VHB™ Tape offers a durable bond in a way that mechanical fasteners can't. This tape enhances the appearance of finished goods by eliminating rivets and screws while providing immediate handling strength. In most cases, fastening with 3M™ VHB™ Tape is a quicker process than drilling, fastening, or using liquid adhesive. Our versatile line of tapes can be used indoors or outdoors in a variety of applications, including window, door and sign assembly, electronics, construction and countless other industrial applications. Chemically resistant as well as UV and temperature stable, 3M™ VHB™ Tape can withstand the heat of Dubai to the cold of Canada. The unique acrylic chemistry is extremely durable and resistant to change over time, making this a long-lasting and powerful tape you can trust.

Bringing Better Ideas to the Surface through Science and Innovation
In our 3M Industrial Adhesives and Tapes Division, we apply the science of adhesion to deliver innovative solutions that improve the design and manufacturing processes of companies around the world. In the end, our technologies help customers like you deliver competitive products to the market faster and more efficiently.

Specifications

Adhesive Type	General Purpose Acrylic Adhesive
Application Temperature-Environment	50 Degrees Fahrenheit
Brand	VHB™
Color	White
Foam Conformability	Firm
Industries	General Industrial
Length	36 Linear Yard
Length (Metric)	32.9 m
Maximum Operating Temperature (Fahrenheit)	300 Degree Fahrenheit
Primary Liner	Polyester Film - Clear
Product Form	Roll
Substrate 1	High Surface Energy, (400-1100 Dynes/cm), Medium-High Surface Energy, (42-50 Dynes/cm)

Substrate 2	High Surface Energy, (400-1100 Dynes/cm), Medium-High Surface Energy, (42-50 Dynes/cm)
Substrates	Glass, High Surface Energy, (400-1100 Dynes/cm), HSE Plastics and Glass, Medium-High Surface Energy, (42-50 Dynes/cm), Metal, Paint, Rough surfaces
Tape Thickness	0.120 in (3.0mm)
Temperature Resistance - Initial	400 Degree Fahrenheit
Thickness	120 mil
Thickness (Metric)	3.05 mm
Volatile Organic Compounds (VOCs)	See Safety Data Sheet, Regulatory Data Sheet
Width	0.5 Inch
Width (Metric)	12.7 mm

Brochure

Adhesives and Tapes Design Guide (PDF, 20.1MB)

Bulletin

VHB™ Tape Surface Preparation Technical Bulletin (PDF, 53.1KB)

Technical Information

VHB™ Tape - Specialty Tapes (PDF, 462.4KB)

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