

High Performance Mounting Tapes are energy-dissipating, closed cell foam substrates with a high performance acrylic adhesive on both sides, designed for the most demanding of applications.

High Performance mounting tapes are usually closed cell and are intended for both interior and exterior applications. Closed cell foam mounting tapes are stronger and are designed to offer excellent shear, peel, and tensile properties. These tapes are intended to be used in applications requiring a permanent bond, with the exception of some transfer and double-coated film tapes, which have many options in both carrier and adhesive system. These tapes use a ultra-high bond acrylic adhesive system, and offer many design possibilities. Quick stick adhesion does not necessarily guarantee the best bond, these high performance mounting tapes are designed to “wet-out” (make contact with bonding surfaces) across the substrate for 24 hours before reaching their ultimate holding capacity.

Formulations:

POLYURETHANE FOAM: High density, thin gauge, ultra-high bond tape, using an aggressive acrylic adhesive system. Urethane is very conformable allowing maximum surface contact between attached substrates. Urethane mounting tape reduces distortion of mating surfaces by distributing stress within the bond through excellent mechanical properties of the foam.

ACRYLIC FOAM: Usually medium density, used almost exclusively in 3M VHB's. Lightweight and available in many formulations, depending on the application. Adhesive system is also an acrylic.

Shape: Rolls, strips, spools, sheets, die-cut and fabricated parts

Finish: Smooth (usually not applicable)

Thickness: .010” - .125” (depending on the particular type of foam)

Width: 1/8” - 56” (depending on the particular type of foam)

Length: To 200' (virtually unlimited on a custom basis)

Color: Black, Gray, White and Olive Green (depending particular type of foam used)

Packaging: Individually boxed, bagged, or bulk packed

Note: Not all formulations are available in every configuration

Typical Applications:

- Advertising and Display assemblies - parts bonding, graphics attachment
- Air Conditioning Equipment - seam seals, sheet metal bonding
- Appliances - emblem and accessory attachment, stiffener bonding
- Boats and Recreational Vehicles - fastener elimination, seam bonding/sealing
- Buildings: portable and mobile - panel attachment, roof bow attachment
- Control Boxes and Panels - wire management device attachment
- Coolers and Refrigeration - sheet metal bonding, moisture sealing
- Furniture - trim and fabric attachment
- Signage - graphics and installation
- Windows - glass glazing and muntin bar attachment
- Transportation - trailer, emergency vehicles, fastener/rivet replacement
- Glass Manufacturing - security glass laminating
- Weather Stripping and Weather Stripping attachment
- Body Side Molding attachment
- OEM (original equipment manufacturers) designed applications

General Characteristics:

- Acrylic adhesive provides durable bond
- Quick stick speeds application
- Smooth surface promotes maximum surface contact and adhesive “wet-out”
- Absorbs vibration, reduces noise
- Mitigates effects of temperature-induced expansion and contraction
- Helps prevent corrosion by eliminating contact between dissimilar materials
- Reduces or eliminates mechanical fasteners, liquid adhesives, and welds
- Excellent holding power in extreme cold
- Excellent all-weather aging properties and chemical resistance
- Conforms fully to contoured surfaces, depending on the formulation
- Distributes stress over a large area, thus eliminating distortion
- Elimination of mechanical fasteners saves time, increases productivity, reduces costs and improves overall product performance