

General Purpose Mounting Tapes Include Acrylic, Polyurethane and Polyethylene foam substrates, utilizing either acrylic or rubber based adhesives and are designed for use in less demanding applications.

General Purpose mounting tapes can be either open or closed cell, depending on the foam substrate used. Closed cell mounting tapes are usually stronger and can perform in a wider variety of applications. These tapes, because of the foam substrate, are energy-dissipating and are ideal for severe exterior (closed cell) applications. The most versatile, polyurethane, is durable in all weather conditions, and provides resistance against UV light, extreme temperatures, fungi, oxidation and ozone. Aside from outstanding weatherability, these materials offer excellent mechanical bonding properties and are formulated for quick-stick and ultra-high bond strength. Some of these materials, depending on the manufacturer have no VOC (Volatile Organic Compound) emissions.

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 by 3M, Lightweight and available in many formulations, depending on the application. Adhesive system is also an acrylic.

POLYETHYLENE FOAM: Closed cell, low density foam substrate used with either a rubber or acrylic based adhesive system. Depending upon the application, either adhesive system can be expected to form a permanent bond. Rubber based adhesives offer the best quick stick properties in a polyethylene tape. polyethylene is better suited for interior or hidden applications, mainly due to its poor UV light resistance.

TRANSFER ADHESIVES: These products are usually clear or translucent and are considered a dry pressure sensitive tape without a carrier. Some products can be dispensed with a gun and are intended for use in many applications, including low profile areas requiring a very thin bonding system.

DOUBLE-COATED TRANSFER FILMS: Very similar to standard transfer adhesives except for the use of a carrier, sandwiched under, or between the adhesive. These products are offered in a wide variety of options for adhesive system; rubber or acrylic, tackiness, removable to permanent, and carrier; polyester, poly vinyl chloride, tissue paper etc...

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

Finish: Smooth (usually not applicable)

Thickness: Less than .002" - .125" (depending on the particular type of foam)

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

Length: To 2,000 yards (greatly varies, depending on the particular type of foam or adhesive)

Color: Black, Gray, White, Clear and Translucent are most common (depending particular type of foam or adhesive)

Packaging: Individually boxed, bagged, or bulk packed

Note: Not all formulations are available in every configuration

Typical Applications:

- Emblem and ornamentation attachment
- Signs and nameplates
- Window Muntin Bar attachment
- Panel Stiffeners
- Trailer Roof Bows
- Weather Stripping
- Body Side Molding attachment
- Security Glass Lamination
- OEM (original equipment manufacturers) designed application

General Characteristics:

- Quick stick speeds application
- Excellent environmental resistance, depending on the foam.
- Reduction or elimination of liquid adhesives, screws, rivets, welds, and subsequent surface finishing enhances productivity and aesthetics.
- Distributes stress over a large area, thus eliminating distortion.
- Prevents corrosion of two dissimilar metals by eliminating contact between them.
- Reduces noise by reducing vibration.
- Reduces manufacturing costs by eliminating more costly adhesives and fasteners, and by increasing productivity.
- Helps in relieving stress forces caused by thermal expansion and contraction between bonded parts, thereby maintaining the bond during temperature cycles and fluctuations.
- Elimination of mechanical fasteners saves time, increases productivity, reduces costs and improves overall product appearance.