



AT-3 Very High Bond Strength Acrylic Tape

AT-3 is a pressure sensitive, structural grade, solid acrylic tape system designed to provide a superior bond between a wide variety of substrates. The tape possesses a uniform, high-tack, acrylic adhesive on both surfaces with an integral core of solid acrylic polymer and will bond to most clean, dry, oil-free substrates.

Thickness ranges from 0.64mm to 2mm (0.025" to 0.080")

Width ranges from 6mm to 457mm (0.25" to 18")

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|--------------------|-----------------------------|
| Technology / Base | Acrylic |
| Type of Product | Very High Bond Acrylic Tape |
| Appearance / Color | Translucent |
| Consistency | Tape |

Features and Benefits

AT-3 offers numerous advantages including a waterproof bond, ease of application, and the ability to withstand thermal movement.

- Pressure sensitive bonding
- Solid composition for easy cutting
- Moisture resistant
- Excellent weathering properties
- Maintains adhesion at sub-zero temperatures
- Hardening or brittle resistant with age
- Flexible – conforms to intricate shapes

Technical Data

| Property | Typical Value | Test Method |
|--|---|---|
| Tensile Strength (MPa) | 2.2 | ASTM D412 Die C |
| Elongation (%) | 500 | ASTM D412 Die C |
| Dynamic Shear(kPa) | 620 | ASTM D3164 |
| Static Shear | Passes @ 74°F Passes @158°F | WSB-M3G138-B (1000g, 1 in ² , 100hrs) |
| 90° Peel Adhesion (N/mm) | 5.2 | ASTM D3330 |
| Chemical Resistance - Cleavage Peel (N/mm) | 15.1 12.9 10.5 10.9 | FLTM BU 112-02, Method C 3 Days @ RT Unleaded Gasoline - 1hr Diesel Fuel - 1hr Water Immersion - 240hrs |
| UV Resistance | Maintains minimum 90% of initial strength | 2 weeks UV-A @ 140°F |
| Application Temperature Range | 10°C to 38°C (50°F to 100°F) | |
| Service Temperature Range | -34°C to 93°C (-30°F to 200°F) | |



Typical Applications

- Automotive trim attachment
- Signs
- Graphics
- Window muntin bar attachment
- Furniture
- Appliances
- Many other manufacturing and construction applications to replace mechanical fasteners and welds

Specifications

Meets requirements of:

| | |
|------------|------------------|
| Chrysler | MS-12194 Type C |
| Ford | WSB-M3G138-B |
| GM | GM3802M Type XIV |
| Mazda | MES PA 50680 |
| Mitsubishi | ES-X61165 |
| Nissan | M8506 (1999-N) |

Typical Packaging

Contact your H.B. Fuller representative for specific sizes.

Storage and Shelf Life

Store material in original unopened packaging at temperatures between 4°C to 38°C (40°F to 100°F). Shelf life is 24 months when stored as recommended.

Safety and Disposal

Prior to working with this or any product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions and disposal considerations.

General Instructions

1. Substrate Evaluation: Acrylic adhesive is suitable for bonding a variety of substrates, including many plastic composites, sealed wood, and metals. Low surface energy materials such as polyethylene, polypropylene, silicones and PTFE can be difficult to bond to. Thorough evaluation is recommended when bonding to any questionable surface. An adhesion promoter (primer) for use with pressure sensitive acrylic adhesives may be necessary to facilitate proper bonding, and is available from H.B. Fuller.
2. Preparation of Substrate: The substrate to be bonded should be cleaned with an appropriate solvent, preferably isopropanol (IPA). The acrylic adhesive backed part should be applied within 15 minutes of cleaning. To ensure removal of all contaminants without leaving any residue, use a clean, lint-free wiping cloth or disposable wipe. Never use recycled rags. Other solvents such as hexane, heptane, or methanol may be suitable for cleaning various substrates after thorough evaluation. The substrate must be completely dry through evaporation of the solvent with radiant heat, hot air dryers, or with time before bonding acrylic adhesive backed parts.
3. Adhesive Promoter Application-If necessary: Apply the AP-1 Adhesion Promoter to the substrate(s) either with a lint-free applicator or foam brush. Apply the Adhesion Promoter in a "wet" laydown thickness range of 1-8 mils. Allow the Adhesion Promoter to dry approximately 5 minutes. Don't touch the Adhesion Promoter.
4. Application of Adhesive Backed Part to the Substrate: Remove the protective release liner from the acrylic tape immediately prior to applying the part to be bonded, being careful not to contaminate the acrylic adhesive. Apply within 15 minutes after surface preparation. Apply the part to be bonded without entrapping air between the tape and the substrate with a recommended minimum application pressure of 15 pounds per inch of tape width to achieve adhesive to substrate contact and maximum bond

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