

PRODUCT DESCRIPTION

AT8502WPL is an ultra-thin, general-purpose pure acrylic foam transfer tape designed for bonding materials with high and medium surface energy. Virtually invisible in many applications, this tape is ideal for lightweight, thin, and small parts in a wide range of shapes and sizes, and delivers excellent adhesive performance across a variety of molded parts.

FEATURE BENEFITS

- Excellent solvent resistance
- Excellent UV resistance
- Replaces rivets, screws, spot-welds, and liquid adhesives
- No bi-metal corrosion
- Viscoelastic product
- Excellent adhesion
- Excellent water resistance
- Excellent temperature resistance
- PFAS / PFOS free

SUITABLE FOR

- Glass
- Glass / epoxy
- Stainless steel
- Galvanized steel
- Anodized steel
- Coated aluminum

PRODUCT INFORMATION

Product Category	Backing Type	Adhesive Type	Liner Type	Color
Transfer Tape	None (Transfer)	Pure Acrylic Foam	Siliconised Paper	Transparent

PHYSICAL CHARACTERISTICS

Property	Value
Density:	840 kg/m ³ (52 lb/ft ³)
Thickness:	0.25 mm (0.01")
Temperature Resistance – Long Term:	100°C / 212°F
Temperature Resistance – Short Term:	160°C / 320°F
Minimum Application Temperature:	-40°C / -40°F
Liner:	Siliconised Paper (custom liners available)

PERFORMANCE CHARACTERISTICS

Test	Value	Test Method
90° Peel Adhesion	26 N/10mm (15 lb/in)	ASTM D 3330
Normal Tensile	750 kPa (109 lb/in ²)	ASTM 897
Dynamic Shear	600 kPa (87 lb/in ²)	ASTM 1002
Static Shear @ 22°C (72°F)	1000 min. (7 days)	ASTM 3654
Static Shear @ 66°C (150°F)	500 min. (7 days)	ASTM 3654
Static Shear @ 93°C (200°F)	500 min. (7 days)	ASTM 3654



AVAILABLE SIZES

Configuration	Size	Core
Jumbo Roll	900mm x 550m	75mm / 3"
Log Roll	900mm x 55m	75mm / 3"
Slit Roll	4–250mm x 55m	75mm / 3"
Spool Roll	4–30mm (length varies by width)	150mm / 6"

APPLICATION & HANDLING GUIDELINES

Design: A proper tape bond design avoids cleavage and peel forces. Designs that favor pure shear and tensile loads are preferred to get the full performance of this tape.

Surface Preparation: All bonding processes require proper surface preparation and cleaning so the tape can make direct, full contact with the surface. A dirt-and-dust remover will clear most polar contamination such as fingerprints and light oil; an oil-and-grease remover is better suited to non-polar contamination such as grease or mold release agents. Check that any cleaner is compatible with the surface, and use lint-free tissues.

Surface Modification: If cleaning alone does not achieve adequate adhesion, surface modification may help. For larger-scale operations, flame activation is an option. For smaller-scale or repair work, a suitable primer or surface activator can be used – low-surface-energy plastics (PE, PP) typically need a UV primer, glass exposed to humid environments benefits from a glass-specific primer, and many automotive paints respond well to a one-step clean-and-prime product. Apply primers and activators only to the bonding area and clean up excess material immediately. For mill-finished aluminum or stainless steel, mild abrasion followed by cleaning is an option.

Temperature: After proper surface preparation, this tape should be applied at a temperature above 18°C (65°F). For temperatures below this but above 0°C (32°F), a low-temperature acrylic foam tape is recommended instead.

Pressure: Assemble parts immediately after liner removal. Apply pressure in a rolling fashion at 10–50 N/cm (ideally about 30 N/cm), depending on the application, at a speed of roughly 10 mm/s (24 in./min.). Higher application speeds may require higher pressure. Full bond strength develops after 24 hours at ambient temperature; higher temperatures can accelerate strength development.

Storage & Shelf Life: Store this tape between 5°C and 35°C (40°–95°F) and avoid humid conditions that could cause condensation. Shelf life is 24 months from the date of manufacture.

DISCLAIMER

All technical data in this product data sheet are based on Carolina Custom Products' experience and external testing institutes. These values are representative of overall performance. This data sheet is not intended for use in preparing specifications or for a specific application. It is the customer's responsibility to test whether this tape is suitable for their application or project. Carolina Custom Products will not be held liable for any information provided on this data sheet. Please follow the rules and regulations applicable in the state, county, or country where this product is being used. If you have any questions regarding the use of this product, please contact your Carolina Custom Products sales representative.

