

Scapa AS12Y0

Acrylic Foam Tape (AFT) - 3mm, White, High Temperature

DESCRIPTION

AS12Y0 is a conformable double sided acrylic foam tape with a release liner on one side. The product is used for permanent bonding of materials such as metals, glass and some plastics, in interior and exterior applications. The product is available in white colour.

APPLICATIONS

- Bonding and sealing in the photovoltaic (PV) solar module industry – framing of crystalline silicon panels.
- Panel fixation, metal stiffener and reinforcement bar bonding: doors, lifts, trailers, cabinets, traffic signs, etc.
- Bonding metal to metal before passing through the powder coat painting process.

PRODUCT BENEFITS

- Service temperature: -30°C to +150°C continuous, and to +210°C peak (duration 1 hour).
- Complies with Directive 2002/95/EC (RoHS) restricting the use of heavy metals in electronics products.
- Solvent free product.
- Suitable for indoor and outdoor use (excellent UV and ageing resistance).
- Very high resistance to static and dynamic loads.
- Very high adhesion to metals and glass.
- Withstands expansion and contraction of materials without loss of adhesion due to its visco-elastic properties.

TECHNICAL PROPERTIES

Technical Property	Nominal Value	Unit	Test Method
90° Peel Adhesion 20 min Glass	50	N/25mm	ASTM D330: PSTC 101
90° Peel Adhesion 20 min Steel	60	N/25mm	ASTM D330: PSTC 101
90° Peel Adhesion 24 hr Glass	60	N/25mm	ASTM D330: PSTC 101
90° Peel Adhesion 24 hr Steel	70	N/25mm	ASTM D330: PSTC 101
Density	800	Kg/m ³	Mass-Volume
Dynamic Shear Steel	250	N/(25mm)	ASTM D1002: 24 St. Ruhezeit
Elongation	800	%	ASTMD882
Rolling Ball Tack #14 (5.604g)	> 300	mm	ASTM D3121 PSTC 6M
Rolling Ball Tack #24 (28.2g)	> 300	mm	ASTM D3121 PSTC 6M
Static Shear 15KPa @ 120°C	> 10,000	Min	ASTM D3654 PSTC 107M
Static Shear 15KPa @ 93°C	> 10,000	Min	ASTM D3654 PSTC 107M
Static Shear 30KPa @ 25°C	> 10,000	Min	ASTM D3654 PSTC 107M
Tensile Strength	40	N/25mm	ASTMD882

Note:

* Test sample Preparation

Clean the substrates tested with isopropyl alcohol (IPA) or Acetone; laminate the tape with a 2kg/5kg rubber roller back and forth once. Tests conducted at: 25°C, ±5°C, and 35% ±15% RH

STANDARD PRESENTATIONS

- Colours: White
- Core: 76mm, Plain plastic
- Liner : Red, smooth release Polyethylene (SPE)
- Packaging: Cardboard, bulk packed with silicone interleaving between layers
- Roll Length: 16.5 metres
- Roll Width: On request from 6mm to max. 500 mm.

RECOMMENDATIONS

Rolls should be stored flat on their cut edges in the original packaging. The product must be protected from dust, heat, moisture, direct sunlight and solvent fumes. The ideal storage temperature should be between 10°C and 30°C with relative humidity at 30 to 70%. The shelf life is 24 months from the date of manufacture.

Surfaces should be clean, dry and free of dust, grease, oil or other contaminants.