

Scapa AS1210

Acrylic Foam Tape (AFT) - grey, high temperature, 0.4mm.

DESCRIPTION

AS1210 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.

APPLICATIONS

- Bonding and sealing in the photovoltaic (PV) solar module industry – framing of crystalline silicon panels and back rail bonding of thin film modules. AS1210 is a UL® recognised component to UL746C (File No. E329950) and meets the requirements of industry standard IEC 61215:2005.
- 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 Steel: 20mins	30	N/25mm	ASTM D330: PSTC 101
90° Peel Adhesion Steel: 24 Hrs	45	N/25mm	ASTM D330: PSTC 101
90° Peel Adhesion 20 min Glass	30	N/25mm	ASTM D330: PSTC 101
90° Peel Adhesion 24 hr Glass	40	N/25mm	ASTM D330: PSTC 101
Density	800	Kg/m ³	Mass - Volume
Dynamic Shear Steel	550	N/25mm	ASTM D1002
Elongation	800	%	ASTM D882
Rolling Ball Tack #14 (5.604g)	>300	mm	ASTM D3121 PSTC 6M
Static Shear 30 KPa @ 25° C	>10,000	Min	ASTM D3654 PSTC 107M
Tensile Strength	7	N/25mm	ASTM D882
Rolling Ball Tack #24 (28.2g)	>300	mm	ASTM D3121 PSTC 6M
Static Shear 23 KPa @ 93° C	>10,000	Min	ASTM D3654 PSTC 107M
Static Shear 15 KPa @ 120° C	>10,000	Min	ASTM D3654 PSTC 107M

Note:

Static Shear: 30KPa : 2kg/(25mm)².

Test Sample - Preparation:

The substrates tested are cleaned with isopropyl alcohol (IpA) or Acetone; lamination of 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: Grey
- Core: 76mm, Plain plastic or Scapa branded cardboard core
- Packaging: Cardboard, bulk packed with silicone interleaving between layers
- Release Liner : Smooth release, red polyethylene (SPE)
- Roll Length: 33 Meters
- Roll Width: On request from 6mm to max. 1,200 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