BARNIER ® AS1160

Clear Acrylic Bonding Tape 1mm (AFT range)

DESCRIPTION

AS1160 TP is a UV cured thick acrylic bonding transfer tape coated onto a polyethylene release liner. The product is ultra-clear. It can be used on a wide variety of substrates including most metals, glass as well as many plastics. The total product thickness is 1.0mm.

APPLICATIONS

- Used to bond glass and clear plastics where an invisible bonding media is required.
- Area of application: safety glass manufacture; signage manufacturing (PMMA and PC); furniture panels, glass cabinets; trim attachment (partition wall systems, decorative glazing trims); elevator control panel bonding.

PRODUCT BENEFITS

- Service temperature: -30°C to +120°C continuous, and to +180°C peak (maximum duration 1 hour).
- Very high transparency enables “invisible” bond
- High adhesion on various surfaces : metals, glass, engineered plastics (not PE, PP)
- Excellent shear resistance even at high temperature
- High thickness makes AS1160TP suitable to bond rough or uneven surfaces
- Suitable for indoor and outdoor applications (very good resistance to UV light)
- No volatile solvent residues and no known hazardous materials associated with this product
- Complies with Directives 2000/53/EC (ELV) and 2002/95/EC (RoHS) restricting the use of heavy metals for products in the automotive and electronics markets
- Maximum recommended weight loading of 0.306 kg/cm²

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TECHNICAL PROPERTIES

Technical Property	Nominal Value	Unit	Test Method
90º Peel Adhesion 20 min Glass	50	N/25mm	ASTM D330: PSTC 101
90º Peel Adhesion 20 min Steel	50	N/25mm	ASTM D330: PSTC 101
90º Peel Adhesion 24 hr Glass	70	N/25mm	ASTM D330: PSTC 101
90º Peel Adhesion 24 hr Steel	70	N/25mm	ASTM D330: PSTC 101
Density	950	Kg/m³	Mass-Volume
Dynamic Shear Steel	300	N/(25mm)	ASTM D1002 24hr dwell
Elongation	800	%	ASTMD882
Rolling Ball Tack #14 (5.604g)	250	mm	ASTM D3121 PSTC 6M
Rolling Ball Tack #24 (28.2g)	>300	mm	ASTM D3121 PSTC 6M
Static Shear 15KPa @ 120℃	>10,000	Min	ASTM D3654 PSTC 107M
Static Shear 23KPa @ 93ºC	>10,000	Min	ASTM D3654 PSTC 107M
Static Shear 30KPa @ 25ºC	>10,000	Min	ASTM D3654
Tensile Strength	15	N/25mm	ASTMD882

Note:

****This will be taken from the core product for the SAP Material Group****

STANDARD PRESENTATIONS

- Colours: Transparent
- Core: 76mm, Plain plastic or Scapa branded cardboard core
- Packaging: Cardboard, bulk packed with silicone interleaving between layers
- Release Liner : Red, smooth release polyethylene (SPE)
- Roll Length: 10 or 33 metres
- Roll Width: On request from 6mm to max. 1000 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.

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