

## Scapa AS1160

### Clear Acrylic Bonding Tape - 1.0 mm Thick (AFT Range)

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#### DESCRIPTION

AS1160 TP is a UV cured thick acrylic bonding transfer tape coated onto a siliconised 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

## 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 | 50            | N/25mm            | ASTM D330: PSTC 101   |
| 90° Peel Adhesion 24 hr Glass  | 70            | N/25mm            | ASTM D330: PSTC 101   |
| 90° Peel Adhesion 24 hr Steel  | 70            | N/25mm            | ASTM D330: PSTC 101   |
| Density                        | 950           | Kg/m <sup>3</sup> | 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°C     | >10,000       | Min               | ASTM D3654 PSTC 107M  |
| Static Shear 23KPa @ 93°C      | >10,000       | Min               | ASTM D3654 PSTC 107M  |
| Static Shear 30KPa @ 25°C      | >10,000       | Min               | ASTM D3654            |
| Tensile Strength               | 15            | N/25mm            | ASTMD882              |

## STANDARD PRESENTATIONS

- Colours: Transparent
- Core: 76mm, Plain plastic
- Packaging: Cardboard, bulk packed with silicone interleaving between layers. Available in spool format.
- Release Liner : Red, smooth release polyethylene (SPE)
- Roll Length: 33 metres
- Roll Width: On request from 6mm to max. 900 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.