

Scapa AS1D20W

Thermal Conductive Acrylic Pad - 0.5mm

DESCRIPTION

Scapa AS1D20 is an acrylic foam core based thermal conductive pad with very high thermal conductivity and low initial tack performance. The product is protected with a release liner on one side. The product is supplied in roll format and available in white colour.

APPLICATIONS

- Components of timing controller.
- Display back chassis.
- LED Array (Metal PCB).

PRODUCT BENEFITS

- 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.
- Halogen-free tape.
- Roll format available for better assembly productivity.
- Self-stick acrylic material with thermal conductive particles for precise tape positioning and application.
- Product accredited to UL94 - V-0 rating for flame retardancy.
- Service temperature: -20°C to +120°C continuous, and to +150°C peak (maximum duration 1 hour).

TECHNICAL PROPERTIES

Technical Property	Nominal Value	Unit	Test Method
Breakdown Voltage	17.7	kV	ASTM D149
Density	1,700	Kg/m ³	Volume mass
Dielectric Constant	2.5~3.5	K	ASTM D150
Insulation Resistivity	Over E15	Ω	ASTM D257
Thermal Conductivity	2.0	W/m•K	ASTM E1530
90°Peel Adhesion to SUS (24hr)	13	N/inch	ASTM D3330
90° Peel Adhesion 24hr ABS	15	N/inch	ASTM D3330
Flammability	V-0	-	UL94
Dynamic Shear	250	N/inch ⁻²	ASTM D1002
Holding Power	15	kPa	ASTM D3654
Tensile Strength	15	N/inch	ASTM D897 72hr dwell
Elongation	300	%	ASTM D897 72hr dwell

Note:

Clean the substrates tested with IpA or Acetone, then laminate the tape with 2kg/5kg rubber roller back and forth once. Test ambient condition: 25°C +/- 5°; 35% ±5%RH.

Dynamic Shear Test: 72 hour dwell time.

STANDARD PRESENTATIONS

- Colours: White
- Core: 76mm, Plain plastic or Scapa branded cardboard
- Packaging: Cardboard, bulk packed with silicone interleaving between layers
- Release Liner : Scapa branded (PR) or Plain white paper (P).
- Roll Length: 33 metres
- Roll Width: Upon request (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 storage temperature and relative humidity should be 20 ± 10°C and 50± 20%. 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.