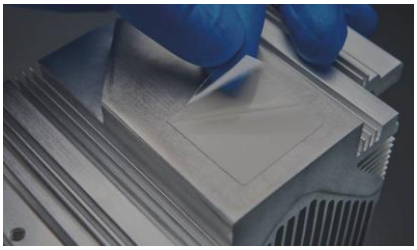
Ttape™ 1000A

Thermally Conductive Adhesive Tape



PRODUCT DESCRIPTION

Ttape™ 1000A Thermally Conductive Adhesive Tape is a stand-alone pressure sensitive adhesive featuring one of the lowest thermal resistances (at 50µm) available on the market, designed to facilitate the transfer of thermal energy from heat sources, such as IC chips, to heat sinks. Ttape™ 1000A offers a high degree of substrate conformability and adhesion needing only finger pressure to achieve excellent thermal performance eliminating the need for mechanical fasteners or clamping devices during assembly.

FEATURES & BENEFITS

- Best in Class Thermal Performance at 1.3°C-cm^2/W at 100psi
- High Mechanical Strength
- RoHS Compliant
- Specialized Acrylic Formulation
- Easy to Use
- UL pending

MARKETS

- Consumer Electronics
- Telecommunication Hardware
- Power Supplies
- Audio Amplifiers
- LED & Ballast Lighting
- Battery Charging
- Inverters

AVAILABILITY

- 0.05mm thickness (Ttape™1050A)
- Ttape is supplied in standard
  - 457mm x 75m rolls
  - 228mm x 75m rolls
  - 457mm x 457mm (18'x18") sheets
  - 228mm x 228mm (9"x9") sheets
- Custom die cut parts (stand alone or on rolls)
- Easily automated

STORAGE CONDITIONS

- Store in original packaging at temperatures of 4°C - 29°C (40°F - 85 °F) and below 70% relative humidity.
- The product should not be frozen and should be kept dry, clean, and well-protected.
- Shelf life is 1 year from the date of shipment

TYPICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
Color	White	Visual
Thickness	0.05mm (0.002")	ASTM D374
Thickness Tolerance	±10%	IPC 1403
Density	1.24 g/cc	
Thermal Conductivity	0.7 W/m°K	ASTM D5470
Thermal Resistance	1.3°C-cm^2/W (0.2°C-in^2/W) @0.69 MPa (100psi)	ASTM D5470
Continuous Operating Range	-40°C to 125°C	N/A
Glass Transition Temp	-20 °C	ASTM D3386
90° Peel Strength	2.7 N/cm (1.6 lbs/in)	ASTM D3330 against smooth aluminum, 1hr dwell
Lap Shear Strength	30 psi	ASTM 3163 on untreated aluminum
Dielectric Constant	1.07 KHz / 1.009MHz	ASTM D150
Dissipation Factor	0.009 KHz / 0.041 MHz	ASTM D150
Volume Resistivity	>10^{15} ohm-cm	ASTM D257
Dielectric Strength	1.18 KVac/mil 47 KVac/mm	ASTM D149
AC Voltage Breakdown	2.35 KVac	ASTM D149
Out gassing-TML	0.816 % wt.	E595
Out gassing - CVCM	0.037 % wt.	E595

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