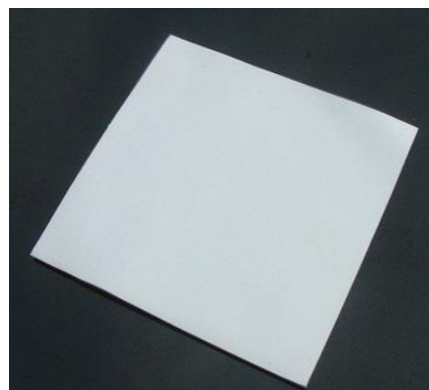


Description

LISAT LST-TIP-205 is a Thermal Pad material with excellent thermal conductivity and surface wetting ability. It is able to produce good performance. The material softness is ideal to achieve low interface thermal impedance at a low pressure level and yet optimizing its thermal performance. With good recoverability and ability to ensure a reliable contact, this will allow effective thermal dissipation from heat source through filled gap by removing air to its best performance.



Features and Benefits

- Thermal Conductivity of 1.5 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Hardness
- Elasticity for Reliable Long Term Work
- Wide Thickness Range

Typical Applications

- @ CPU, GPU & VGA High Power Chips
- @ Rechargeable Battery & Solar Panel Inverter Heat Management Solution
- @ LED Heat Management Solution
- @ Display Equipment Cooling Application
- @ Automotive Electronics Cooling Solution
- @ Telecommunication & Network Device Thermal Management Solution

Properties

Note : Below technical data and information should be thought as typical or representative only and should not be use for specification purpose

TYPICAL PROPERTIES OF THERMAL INSULATOR LST-TIP-205

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD			
Color	White	White	Visual			
Density (g/cc)	2.90	2.90	N/A			
Thickness (mils)/(mm)	20 ~ 200	0.5 ~ 5.0	ASTM D374			
Hardness (Shore 00)	55	55	ASTM D2240			
Continous Use Temp (°F)/(°C)	-49 to 392	-45 to 200	N/A			
ELECTRICAL						
Dielectric Breakdown Violtage (KV/mm)	10	10	ASTM D149			
Volume Resistivity (Ω-meter)	9.6x10 ¹²	9.6x10 ¹²	ASTM D257			
Flame Rating	V-O	V-O	UL94			
THERMAL						
Thermal Conductivity (W/m-K)	1.5	1.5	ASTM5470			
THERMAL PERFORMANCE vs PRESSURE (1 mm)						
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (K-m²/W)	0.000735	0.000645	0.000587	0.000548	0.000523	0.000516
Thermal Impedance (°C-in²/W)	1.14	1.00	0.91	0.85	0.81	0.80
Compression Rate (%)	5%	8%	12%	15%	20%	22%

Part-Number Ordering System : LST-TIP-205-x.xx-

Blank = Non Adhesive

AC = Adhesive Coated

Standard Thickness = 0.50 / 1.00 / 1.50 / 2.00 / 2.50 / 3.00 / 3.50 / 4.00 / 4.50 / 5.00 mm

LISAT

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