

Description

LISAT LST-TIP-201 series is a highly compliant Thermal Pad material that has excellent performance, high thermal conductivity and good surface wetting ability. Good softness allows it to achieve a low interface thermal impedance at a lower pressure level. It is a product that is ideal for fragile component leads. A good recoverability provides rebounding force to ensure a reliable contact thus allowing effective thermal dissipation from heat source through filled gap by removing air to its best ability.



Features and Benefits

- Thermal Conductivity < 1
- Good Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Wetting Properties
- Elasticity for Reliable Long Term Work
- Wide Thickness Range

Typical Applications

@ Telecommunication & Network Device
 @ CPU, GPU & VGA High Power Chips
 @ LED Heat Management Solution
 @ Battery & Solar Inverter Heat Solution
 @ Between a Heat Generating Components and a Heatsink

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-201

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD
Color	Light Green	Light Green	Visual
Density (g/cc)	2.90	2.90	N/A
Thickness (mils)/(mm)	20 ~ 200	0.5 ~ 5.0	ASTM D374
Hardness (Shore 00)	27	27	ASTM D2240
Continous Use Temp (°F)/(°C)	-49 to 392	-45 to 200	N/A
ELECTRICAL			
Dielectric Breakdown Voltage (KV/mm)	6	6	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)	1.3	1.3	ASTM5470

THERMAL PERFORMANCE vs PRESSURE (1 mm)

Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (K-m²/W)	0.000805	0.000702	0.000555	0.000460	0.000398	0.000355
Thermal Impedance (°C-in²/W)	1.25	1.09	0.86	0.71	0.62	0.55
Compression Rate (%)	5%	15%	25%	32%	37%	40%

Part-Number Ordering System : LST-TIP-201-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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