

Description

LISAT LST-TIP-204 is a Thermal Pad with good surface wetting ability and high thermal conductivity. It is able to produce excellent performance. The softness of the material has an ideal blend that allows it to achieve a low interface thermal impedance at low pressure level and yet maintains optimal thermal performance. With good recoverability, it's able to provide rebounding force to ensure a reliable contact thus allowing effective thermal dissipation from heat source through gap filled by removing air to its best ability.



Features and Benefits

- Thermal Conductivity < 1
- Low Thermal Impedance
- Good Electrical Insulation
- Low Hardness
- Elasticity for Reliable Long Term Work
- Wide Thickness Range

Typical Applications

- @ CPU, GPU & VGA High Power Chips
- @ Telecommunication
- @ Power Semiconductors
- @ Display Equipment Cooling Application
- @ Power Semiconductors

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-204

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD
Color	Purple	Purple	Visual
Density (g/cc)	3.00	3.00	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 Voltage (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)	1.2	1.2	ASTM5470

THERMAL PERFORMANCE vs PRESSURE (1 mm)

Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (K-m²/W)	0.000845	0.000742	0.000658	0.000613	0.000587	0.000561
Thermal Impedance (°C-in²/W)	1.31	1.15	1.02	0.95	0.91	0.87
Compression Rate (%)	4%	10%	17%	22%	27%	30%

Part-Number Ordering System : LST-TIP-204-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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