

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

- High Thermal Conductivity of 2.8 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Wetting Properties
- Elasticity for Reliable Long Term Work
- Electrically Isolating
- Wide Thickness Range

Typical Applications

- @ Telecommunication
- @ Multimedia Product
- @ CPU, GPU & VGA High Power Chips
- @ Automotive Electronics Cooling Solution
- @ LED Heat Management Solution
- @ Solar Panel Heat 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-202						
PROPERTY	IMPERIAL VALUE		METRIC VALUE		REFERENT STANDARD	
Color	Light Blue		Light Blue		Visual	
Reinforcement Carrier	Fiberglass	No	Fiberglass	No	N/A	
Density (g/cc)	3.00		3.00		N/A	
Thickness (mils)/(mm)	10 ~ 30	10 ~ 200	0.25 ~ 0.75	0.25 ~ 5.0	ASTM D374	
Hardness (Shore 00)	70	40	70	40	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)	2.8		2.8		ASTM5470	
THERMAL PERFORMANCE vs PRESSURE (1 mm)						
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (K-m ² /W)	0.000497	0.000419	0.000348	0.000303	0.000284	0.000365
Thermal Impedance (°C-in ² /W)	0.77	0.65	0.54	0.47	0.44	0.41
Compression Rate (%)	3%	12%	20%	28%	35%	40%

Part-Number Ordering System : LST-TIP-202-x.xx-

Blank = Non Adhesive

AC = Adhesive Coated

Standard Thickness = 0.25 / 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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