

Description

LISAT LST-TIP-217 is another material of high thermal conductivity with relatively low pressure that can achieve low interfacial thermal resistance. Applied to power devices and heat sink between aluminum or machine casing, it can effectively remove air to achieve a good filling effect. LST-TIP-217 has good withstand voltage characteristics and temperature stability, making it a safe and reliable material. LST-TIP-217 has a super good soft performance with glass fiber reinforced that will help to reduce structural stress and provide a protective effect on the chip and its operating performance.



Features and Benefits

- High Thermal Conductivity of 7.0 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Wetting Properties
- Electrically Isolating
- Wide Thickness Range

Typical Applications

- @ Telecommunication
- @ Multimedia Products
- @ CPU, GPU, VGA High Power Chips
- @ Automotive Electronics Products
- @ 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-217

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD			
Color	Light Blue	Light Blue	Visual			
Density (g/cc)	3.50	3.50	N/A			
Reinforcement Carrier	NA	NA	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 Vloitage (KV/mm)	> 6	> 6	ASTM D149			
Volume Resistivity (Ω-meter)	1.5x10 ¹³	1.5x10 ¹³	ASTM D257			
Flame Rating	V-O	V-O	UL94			
THERMAL						
Thermal Conductivity (W/m-K)	7.0	7.0	ASTM5470			
THERMAL PERFORMANCE vs PRESSURE (1 mm)						
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (°C-in ² /W)	0.32	0.29	0.26	0.23	0.20	0.18
Compression Rate (%)	6%	11%	18%	24%	28%	32%

Part-Number Ordering System : LST-TIP-217-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

2870 Scott Street, Suite 101 Vista, CA 92081, U.S.A.

Tel : (1)-760-5981066 / Fax : (1)-760-5982871 / Email : alan@lisat.net / www.lisat.net