

## Description

LISAT LST-TIP-208, is design for electrically isolating and a thermally conductive product. The material is ideal for uneven surface and high tolerances. It is also designed for silicone sensitive applications. LST-TIP-208 is reinforced for good durability and easy handling of part during assembly work at the production area. This product is available with a protective liner with reduced tack on one side allowing for assembly process and easy rework.



## Features and Benefits

- Good Thermal Conductivity of 2.4 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Electrically Isolating
- Good Elasticity for Easy Handling
- Reliable For Long Term Work
- Wide Thickness Range

## Typical Applications

- @ Telecommunication Products
- @ Fiber Optics Equipment
- @ Automotive Electronics Cooling Solution
- @ Brush Motors, Relays, Connectors, etc
- @ LED Heat Management Solution
- @ Multimedia Products
- @ Hard Disk Drive

## 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-208

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD			
Color	Orange	Orange	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			
<b>ELECTRICAL</b>						
Dielectric Breakdown Vloltage (KV/mm)	10	10	ASTM D149			
Volume Resistivity (Ω-meter)	9.6x10 <sup>12</sup>	9.6x10 <sup>12</sup>	ASTM D257			
Flame Rating	V-O	V-O	UL94			
<b>THERMAL</b>						
Thermal Conductivity (W/m-K)	2.4	2.4	ASTM5470			
<b>THERMAL PERFORMANCE vs PRESSURE (1 mm)</b>						
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (K-m <sup>2</sup> /W)	0.000529	0.000465	0.000400	0.000368	0.000348	0.000335
Thermal Impedance (°C-in <sup>2</sup> /W)	0.82	0.72	0.62	0.57	0.54	0.52
Compression Rate (%)	2%	10%	13%	17%	22%	25%

Part-Number Ordering System : LST-TIP-208-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

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