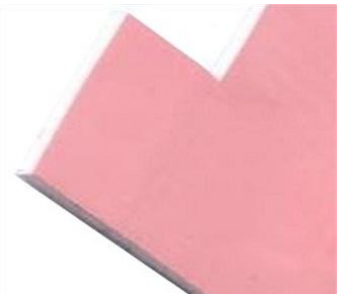


## Description

LISAT LST-TIP-209 has a electrically isolating feature that allow it to be use in application that require isolation between heat sinks and high voltage or bare leaded devices. This material has a low elasticity nature that will give excellent low stress vibration damping and shock absorbing characteristics. With a high compression rate, it is applicable for design that require a minimum amount of pressure on components.



## Features and Benefits

- Thermal Conductivity of 1.0 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Wetting Properties
- Elasticity for Reliable Long Term Work
- Highly Conformable & Low Hardness
- Good for Low Stress Application
- Wide Thickness Range

## Typical Applications

- @ Telecommunication & Network Device Thermal Management Solution
- @ Automotive Electronics Cooling Solution
- @ Display Equipment Cooling Application
- @ CPU, GPU & VGA High Power Chip
- @ LED Heat Management Solution
- @ Multimedia Products
- @ Power Conversion

## 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-209

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD			
Color	White/Pink	White/Pink	Visual			
Density (g/cc)	1.60	1.60	ASTM D792			
Reinforcement Carrier	Sil-Pad	Sil-Pad	-			
Thickness (mils)/(mm)	20 ~ 200	0.50 ~ 5.00	ASTM D374			
Inherent Surface Tack (1-sided or 2-sided)	1	1	-			
Heat Capacity (J/g-k)	≥ 1.0	≥ 1.0	ASTM E1269			
Hardness, Bulk Rubber (Shore 00) (1)	≤ 5	≤ 5	ASTM D2240			
Young's Modulus (psi)/(kPa) (2)	55	55	ASTM D575			
Continous Use Temp (°F)/(°C)	-76 to 392	-60 to 200	-			
<b>ELECTRICAL</b>						
Dielectric Breakdown Voltage (Vac)	> 6000	> 6000	ASTM D149			
Dieletrical Constant (1000 Hz)	5.5	5.5	ASTM D150			
Volume Resistivity (Ω-meter)	10 <sup>11</sup>	10 <sup>11</sup>	ASTM D257			
Flame Rating	V-O	V-O	UL94			
<b>THERMAL</b>						
Thermal Conductivity (W/m-K)	1.0	1.0	ASTM 5470			
<b>THERMAL PERFORMANCE vs PRESSURE (1 mm)</b>						
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (K-m <sup>2</sup> /W)	0.000568	0.000516	0.000452	0.000413	0.000361	0.000316
Thermal Impedance (°C-in <sup>2</sup> /W)	0.88	0.80	0.70	0.64	0.56	0.49
Compression Rate (%)	10%	20%	30%	38%	44%	48%

This material fulfill Bellcore test method TR-NWT-000930, Section 10.3.

Part-Number Ordering System : LST-TIP-209-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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