# LST-TIP-212

## Description

LISAT LST-TIP-212 is a highly thermal conductive, electrically insulating with a relatively low pressure material that can achieve low interfacial thermal resistance. Power devices and heat applied in between aluminum or machine casing, it can effectively remove air to achieve good filling effect. LST-TIP-212 has good dielectric strength characteristics. It has excellent temperature stability and is a safe and reliable material. It has good flexibility charateristics and is resilience in its performance thus play a good part in reducing stress and protecting the chip effect.



# Features and Benefits

- High Thermal Conductivity of 4.0 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Wetting Properties
- Elasticity for Reliable Long Term Work
- Electrically Isolating
- High AC Withstand Voltage Value

# **Typical Applications**

- @ Telecommunication
- @ Multimedia Product
- @ CPU, GPU & VGA High Power Chips
- @ Network Terminal
- **@ Security Equipment**
- @ LED Lighting & Heat Management
- **@ 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 THERM	AL INSULAT	OR LST-TIP-2	12			
PROPERTY	IMPERIAL VALUE		METRIC VALUE		<b>REFERENT STANDARD</b>	
Color	Ligh Blue		Light Blue		Visual	
Density (g/cc)	3.40		3.40		N/A	
Thickness (mils)/(mm)	20 ~ 30	20 ~ 200	0.50 ~0.75	0.5 ~ 5.0	ASTM D374	
Hardness (Shore OO)	65	50	65	50	ASTM D2240	
Continous Use Temp (°F)/(°C)	-49 to 392		-45 to 200		N/A	
ELECTRICAL						
Dielectric Breakdown Vloltage (KV/mm)	>6		>6		ASTM D149	
Volume Resistivity (Ω-meter)	1.5x10 <sup>13</sup>		1.5x10 <sup>13</sup>		ASTM D257	
Flame Rating	V-O		V-O		UL94	
THERMAL						
Thermal Conductivity (W/m-K)	4.0		4.0		ASTM5470	
THERMAL PERFORMANCE vs PRES	SSURE (1 mn	1)				
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (°C-in²/W)	0.51	0.46	0.38	0.34	0.31	0.29
Compression Rate (%)	2%	8%	15%	21%	25%	29%
Part-Number Ordering System : LST-TIP-212-x.xx- Blank = Non Adhesive						

Biank = Non Adnesive

AC = Adhesive Coated

Standard Thickness = 0.50 / 0.75 /1.00 / 1.50 / 2.00 / 2.50 / 3.00 / 3.50 / 4.00 / 4.50 / 5.00 mm

#### LISAT

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