LST-TIP-214

Description

LISAT LST-TIP-214, with its ultra-high thermal conductivity and a relatively low pressure, is a material that can achieve low interfacial thermal resistance. Applied to power devices and heat between aluminum or machine casing, it can effectively remove air to achieve a good filling effect. It has a good withstand voltage characteristic and temperature stability thus making it a safe and reliable material. LST-TIP-214 has good flexibility, performance, resilience and is able to help to reduce structural stress and protect the chips.

Features and Benefits

- Ultra High Thermal Conductivity 5.0 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Wetting Properties
- Elasticity for Reliable Long Term Work
- High AC Withstand Voltage Value
- Wide Thickness Range

Typical Applications

- @ Telecommunication
- @ Multimedia Product
- @ CPU, GPU & VGA High Power Chips
- @ Network Terminal
- **@ Security Equipment**
- @ LED Light & 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-214

TTPICAL PROPERTIES OF THERMAL INSULATOR LST-TIP-214						
PROPERTY	IMPERIAL VALUE		METRIC VALUE		REFERENT STANDARD	
Color	Light Blue		Light Blue		Visual	
Density (g/cc)	3.50		3.50		N/A	
Reinforcement Carrier (Fiberglass)	Yes	No	Yes	No	-	
Thickness (mils)/(mm)	10 ~ 30	20 ~ 200	$0.25 \sim 0.75$	0.5 ~ 5.0	ASTM D374	
Hardness (Shore OO)	75	50	75	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 ¹³		1.5x10 ¹³		ASTM D257	
Flame Rating	V-O		V-O		UL94	
THERMAL						
Thermal Conductivity (W/m-K)	5.0		5.0		ASTM5470	
THERMAL PERFORMANCE vs PRESSURE (1 mm)						
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (°C-in²/W)	0.44	0.36	0.30	0.26	0.22	0.20
Compression Rate (%)	2%	8%	15%	21%	25%	29%

Part-Number Ordering System : LST-TIP-214-x.xx-

x- \square 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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