LST-TIP-216

Description

LISAT LST-TIP-216 is a high thermal conductivity material 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-216 has a good withstand voltage characteristic and temperature stability making it a safe and reliable material. LST-TIP-216 has a good soft performance with glass fiber reinforced thus helping the material to reduce structural stress and play a protective effect on the chip and its operating performance.

Features and Benefits

- Good Thermal Conductivity of 2.4 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Wetting Properties
- Elasticity For Reliable Long Term Work
- Electrically Isolating
- Wide Thickness Range

Typical Applications

@ Telecommunication
@ Multimedia Products
@ CPU, GPU, VGA High Power Chips
@ Automative Electronics Cooling Solution
@ 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-216						
PROPERTY	**IMPERIAL VALUE**		**METRIC VALUE**		**REFERENT STANDARD**	
Color	Light Blue		Light Blue		Visual	
Density (g/cc)	3.40		3.40		N/A	
Reinforcement Carrier	Fiber		NA		N/A	
Thickness (mils)/(mm)	20 ~ 200		0.5 ~ 5.0		ASTM D374	
Hardness (Shore 00)	20		20		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-1		V-1		UL94	
THERMAL						
Thermal Conductivity (W/m-K)	2.4		2.4		ASTM5470	
THERMAL PERFORMANCE vs PRESSURE (1 mm)						
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (°C-in²/W)	0.98	0.78	0.58	0.44	0.40	0.36
Compression Rate (%)	8%	22%	36%	48%	58%	66%

Part-Number Ordering System : LST-TIP-216-x.xx-[ ]

- [ ] = Blank = Non Adhesive; AC = Adhesive Coated
- x.xx = 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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