

Description

LISAT LST-TIP-210, a thermally conductive material, is designed for electrically insulating. The material is ideal for uneven surface and high flat tolerances. It is also designed for silicone sensitive applications. LST-TIP-210 has a reinforcement which will add durability to the product and allow ease of handling of parts during assembly work at the production area. The product is available with a protective liner with reduced tack on one side allowing for assembly process and easy rework.



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
- Electrically Isolating
- Wide Thickness Range

Typical Applications

@ Telecommunication & Network Device
Thermal Management Solution
@ Automotive Electronics Cooling Solution
@ Multimedia Product
@ Fiber Optics Equipment
@ LED Heat Management Solution
@ CD-ROM & 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-210

PROPERTY	IMPERIAL VALUE		METRIC VALUE		REFERENT STANDARD
Color	White		White		Visual
Density (g/cc)	3.00		3.00		N/A
Reinforcement Carrier	Fiberglass	No	Fiberglass	No	-
Thickness (mils)/(mm)	10 ~ 30	20 ~ 200	0.25 ~ 0.75	0.5 ~ 5.0	ASTM D374
Hardness (Shore 00)	75	45	75	45	ASTM D2240
Continous Use Temp (°F)/(°C)	-49 to 392		-45 to 200		N/A
ELECTRICAL					
Dielectric Breakdown Violtage (KV/mm)	6		6		ASTM D149
Volume Resistivity (Ω-meter)	9.6x10 ¹²		9.6x10 ¹²		ASTM D257
Flame Rating	V-O		V-O		UL94
THERMAL					
Thermal Conductivity (W/m-K)	1.0		1.0		ASTM5470

THERMAL PERFORMANCE vs PRESSURE (1 mm)

Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (K-m ² /W)	0.000738	0.000642	0.000589	0.000547	0.000522	0.000515
Thermal Impedance (°C-in ² /W)	1.14	1.00	0.91	0.85	0.81	0.80
Compression Rate (%)	3%	7%	12%	15%	20%	22%

Part-Number Ordering System : LST-TIP-210-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

2870 Scott Street, Suite 101 Vista, CA 92081, U.S.A.

Tel : (1)-760-5981066 / Fax : (1)-760-5982871 / Email : alan@lisat.net / www.lisat.net