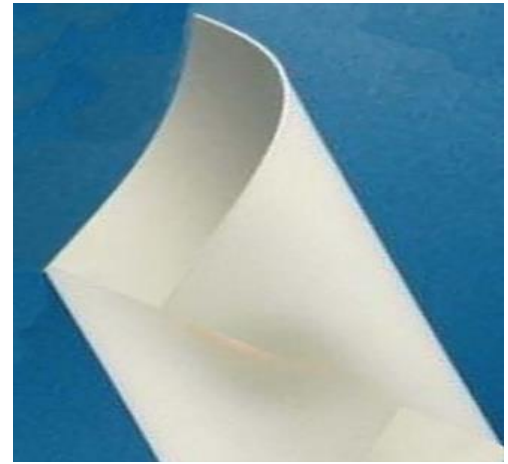


Description

LISAT LST-TIN-531 is an excellent thermal insulator with good thermal impedance, thermal conductivity and thermal resistance. This material is ideal for application requiring the best thermal performing insulation material. It is designed for very demanding industry and commercial applications. LST-TIN-531 is a silicone elastomer formulated to maximize the thermal and dielectric performance. It is a conformable material with capability of meeting the thermal and electrical requirements of many rugged applications.



Features and Benefits

- Good Thermal Conductivity
- High Dielectric Performance
- Low Mounting Pressure
- Low Thermal Resistance
- Highly Electrical Insulation
- Good Flexibility Profile Cutting
- Environment & Weather Ability

Typical Applications

- @ Automotive Electronics
- @ UPS Unit Switch-Mode Power Supply
- @ Motor Controls
- @ Amplifier Component Heat Dissipation
- @ Power Semiconductors
- @ Metal Heat Sink or Spreader
- @ Applications with High Heat Generated

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-531

PROPERTY	METRIC VALUE	REFERENT STANDARD
Color	White Light Blue	Visual
Reinforcement Carrier	Fiberglass	N/A
Thickness (mils)/(mm)	0.254, 0.375 & 0.508	ASTM D374
Hardness (Shore A)	90	ASTM D2240
Continous Use Temp (°F)/(°C)	-60 to 200	N/A
ELECTRICAL		
Dielectric Constant (1000 Hz)	7000	ASTM150
Dielectric Breakdown Voltage (KV/mm)	≥5	ASTM D149
Volume Resistivity (Ω-meter)	10 ¹¹	ASTM D257
Flame Rating	V-0	UL94
THERMAL		
Thermal Conductivity (W/m-K)	3.5	ASTM5470

THERMAL PERFORMANCE vs PRESSURE

Pressure (psi)	5	10	25	50	80	100	120
Thermal Impedance (°C-in ² /W)	0.660	0.580	0.430	0.330	0.290	0.250	0.210

Part-Number Ordering System : LST-TIN-531-x.xx-

Blank = Non Adhesive
 AC = Adhesive Coated
 Standard Thickness =
 0.254mm (10mil)
 0.375mm (15mil)
 0.508mm (20mil)

LISAT

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