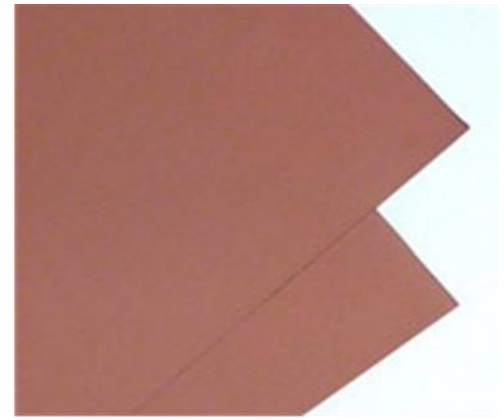


Description

LST-TIN-522, a thermally conductive insulation material, is a thin version fiberglass reinforce silicon pad in light brown color. It is designed for a variety of applications requiring high thermal conductivity and electrical insulation. The LST-TIN-522 series has good mechanical strength and cut through resistant property that fit for screw mounted power semiconductor components. The material provide good wetting surface and allow many low pressure mounting applications.



Features and Benefits

- LTI* : 0.000394 K-m²/W (@50 psi)
- High Dielectric Performance
- Low Mounting Pressure
- Smooth and highly compliant surface
- UL 94V-0 Compliant
- Environment Friendly
- General Purpose Thermal Interface Material

* = Low Thermal Impedance

Typical Applications

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

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-522

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD
Color	Pink	Pink	Visual
Reinforcement Carrier	Fiberglass	Fiberglass	N/A
Thickness (mils)/(mm)	7.5	0.19	ASTM D374
Hardness (Shore A)	86	86	ASTM D2240
Tensile Strength (psi)/(Mpa)	1300	9	ASTM D1000
Continous Use Temp (°F)/(°C)	-76 to 356	-60 to 180	N/A
ELECTRICAL			
Dielectric Breakdown Voltage (Vac)	6000	6000	ASTM D149
Volume Resistivity (Ω-meter)	1.1x10 ¹²	1.1x10 ¹²	ASTM D257
Flame Rating	V-O	V-O	UL94
THERMAL			
Thermal Conductivity (W/m-K)	1.5	1.5	ASTM5470

THERMAL PERFORMANCE vs PRESSURE

Pressure (psi)	5	10	25	50	60	80	100
Thermal Impedance (K-m ² /W)	0.000652	0.000619	0.000477	0.000387	0.000316	0.000290	0.000277
Thermal Impedance (°C-in ² /W)	1.010	0.960	0.740	0.600	0.490	0.450	0.430
Compression Rate (%)	3%	7%	12%	14%	15%	16%	16%

Part-Number Ordering System : LST-TIN-522-x.xx-

Blank = Non Adhesive

AC = Adhesive Coated

Standard Thickness = 0.19mm

LISAT

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