

Description

LISAT LST-TIP-207, is another Thermal Interface Pad (TIP) range of product, which has a reinforcement build into the material. It allows user ease of handling of the product and reinforces tear, puncture and shear resistance. The LST-TIP-207 series acts as a thermal interface and electrical insulator between electronics components and heat sinks. The material is supplied with low tack on one side thus allowing user to have ease of rework.



Features and Benefits

- Good Thermal Conductivity of 2.2 W/m-k
- Low Thermal Impedance
- Good Electrical Insulation
- Soft & Good Surface Hardness
- Elasticity for Reliable Long Term Work
- Electrically Isolating
- Wide Thickness Range

Typical Applications

@ Telecommunication & Network Device
 @ Multimedia Product
 @ CPU, GPU & VGA High Power Chips
 @ Automotive Electronics Cooling Solution
 @ Solar Inverter Heat Solution
 @ LED Heat Management Solution
 @ Memory Chips & Modules

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-207

| PROPERTY | IMPERIAL VALUE | | METRIC VALUE | | REFERENT STANDARD | |
|--|----------------------|----------|----------------------|----------|-------------------|----------|
| Color | Green Gray | | Green Gray | | Visual | |
| Density (g/cc) | 2.90 | | 2.90 | | N/A | |
| Thickness (mils)/(mm) | 20 ~ 200 | | 0.5 ~ 5.0 | | ASTM D374 | |
| Hardness (Shore 00) | 55 | | 55 | | ASTM D2240 | |
| Continous Use Temp (°F)/(°C) | -49 to 392 | | -45 to 200 | | N/A | |
| ELECTRICAL | | | | | | |
| Dielectric Breakdown Vioitage (KV/mm) | 10 | | 10 | | 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) | 2.2 | | 2.2 | | ASTM5470 | |
| THERMAL PERFORMANCE vs PRESSURE (1 mm) | | | | | | |
| Pressure (psi) | 2 | 5 | 10 | 20 | 30 | 40 |
| Thermal Impedance (K-m²/W) | 0.000632 | 0.000568 | 0.000465 | 0.000413 | 0.000387 | 0.000361 |
| Thermal Impedance (°C-in²/W) | 0.98 | 0.88 | 0.72 | 0.64 | 0.60 | 0.56 |
| Compression Rate (%) | 4% | 8% | 15% | 26% | 31% | 35% |

Part-Number Ordering System : LST-TIP-207-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

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