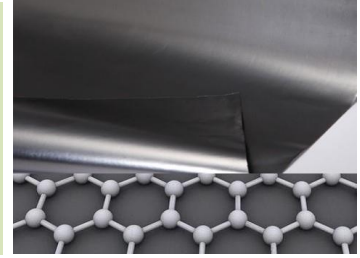


DESCRIPTION

LISAT LST-GNM-300 is an Graphite Nano Material with high thermal conductivity and high flexibility. GNM sheet is made from carbon fiber, carbon nano-powder and heat spreader synthesized by a special process with complex structure of nano-composite materials. It is ideal for providing thermal management/heat-sinking in limited spaces or to provide supplemental heat-sinking in addition to conventional means. It can be die-cut into customizable profile.



Features

- Engineered in-plane 500 W/m-K
- Good EMI shielding and absorbing
- Excellent for EMI sensitive part
- Reliable Temperature -40 °C to 400 °C
- RoHS compliant and UL94 rated

Benefits

- Can be die-cut into customizable profile
- Can be adhesive-backed for peel-and-stick
- Can be laminated with plastics, metals or foam
- Reduce skin temperature & eliminate “hot spots”
- Can replace grease, eliminate fans and heat pipes

LST-GNM-300 Characteristics

| Properties | |
|---|-----------------------------|
| Color | Dark Gray |
| Thickness (mm) | 0.300 |
| Operating Temperature (°C) | -40 ~ +400 |
| Typical Thermal Conductivity (X - Y Direction), (W/m-K) | 500 |
| Typical Thermal Conductivity (Z Direction), (W/m-K) | 15 |
| Typical Electrical Resistivity (Through Thickness) | > 1,600 $\mu\Omega\text{m}$ |
| Typical Electrical Resistivity (In-Plane) | 10 $\mu\Omega\text{m}$ |
| RoHS Compliant | Yes |

Note : Above properties listed information are typical or representative only.

Part-Order Ordering System :

Note : LST-GNM-300-P10 G A10

① ② ③

① **P10** : P = PET
10 = Thickness 10 or 30

② **G** : GNM = Graphite Nano Material
Composite Position

③ **A10** : A = Adhesive 10um
10 = Thickness 10 or 30um
C = Copper Tape
50 = Thickness 50um

CONFIGURATIONS AVAILABLE:

| TYPE | GNM Only | Adhesive Type | | Laminated Type (Insulation & Adhesive) | | | |
|-----------------|----------|--------------------------|--------|--|------------------|------------------|------------------|
| | G | A 30 | A 10 | P30-A30 | P30-A10 | P10-A30 | P30-C50 |
| Front Surface | - | - | - | Polyester (PET) Tape Standard Type | | | |
| | | | | 30 μm | 30 μm | 10 μm | 30 μm |
| Rear Surface | - | Insulative Adhesion Type | | | | | Copper Tape |
| | | 30 um | 10 um | 30 um | 10 um | 30 um | 50 um |
| Structure Layer | 1 | 3 | 3 | 4 | 4 | 4 | 4 |
| Total Thickness | 300 um | 330 um | 310 um | 360 um | 340 um | 340 um | 380 um |
| Heat Resistance | 400 °C | 200 °C | 200 °C | 200 °C | 200 °C | 200 °C | 200 °C |

GNM materials are available with Polyester Tape or with a Pressure Sensitive Adhesive (PSA) available upon request.

NOTICE : information contained herein are based on our best knowledge and accurate. However, before using, user shall determine, the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith.

LISAT

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