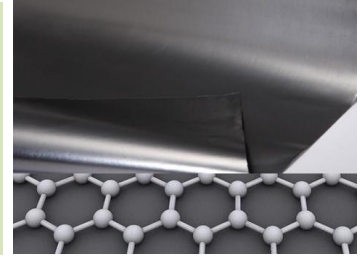


DESCRIPTION

LISAT LST-GNM-500 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-500 Characteristics

Properties	
Color	Dark Gray
Thickness (mm)	0.500
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

Part-Order Ordering System :

Note : LST-GNM-500-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

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

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	500 um	530 um	510 um	560 um	540 um	540 um	580 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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