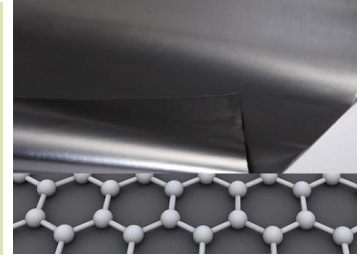


## DESCRIPTION

LISAT LST-GNM-1000 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-1000 Characteristics

Properties	
Color	Dark Gray
Thickness (mm)	1.000
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-1000-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 $\mu\text{m}$	30 $\mu\text{m}$	10 $\mu\text{m}$	30 $\mu\text{m}$
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	1000 um	1030 um	1010 um	1060 um	1040 um	1040 um	1080 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

2870 Scott Street, Suite 101 Vista, CA 92081, U.S.A.

Tel : (1)-760-5981066 / Fax : (1)-760-5982871 / Email : alan@lisat.net / Web : www.lisat.net