

DESCRIPTION

LISAT LST-GTM-025 Graphite Thermal Material is a high thermal conductivity, high flexibility and high crystallized graphite material. Series 025 Graphite Thermal Material is made from carbon material by a special process. It is ideal for providing thermal heat management solution in limited space with good flexibility. It can be die-cut into customizable shape and size.



Features

- Thermal conductivity 1500 W/m-K
- Good EMI shielding and absorbing
- Reliable Temperature -40 °C to 400 °C
- RoHS compliant and UL94V0 rated
- Offered in thickness 0.025 mm

Benefits

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

LST-GTM-025 Characteristics

Properties	
Color	Silver Gray
Thickness (mm)	0.025
Density (g/cm ³)	1.92
Typical Thermal Conductivity (X - Y Direction), (W/m-K)	1,500
Typical Thermal Conductivity (Z Direction), (W/m-K)	18
Thermal Diffusivity (cm ² /s)	9 ~ 10
Tensile Strength (Mpa)	30
Electrical Conductivity (S/cm)	20,000
CTE (Coefficient of Thermal Expansion) (1/K)	9.3 X 10 ⁻⁷
Operating Temperature (°C)	-40 ~ +400
Specific Heat @50°C (J/kg-°C)	850
RoHS Compliant	Yes

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

Part-Order Ordering System :

Note: LST-GTM-025-**P10 G A10**
① ② ③

①

P10 : P = PET
10 = Thk 10, 30 or 50um

②

G : GTM = Graphite Thermal Material
Composite Position

③

A10 : A = Adhesive 10um
10 = Thk 5, 10 or 30um

CONFIGURATIONS AVAILABLE:

TYPE	GTM Only	Adhesive Type		Laminated Type (Insulation & Adhesive)				
	G type	A 30	A 10	P30-A30	P30-A10	P10-A30	P10-A10	A50-A50 C
Front Surface	-	-	-	Polyester Tape Standard Type				Conductive Adhesion Type 50um
				30 μm	30 μm	10 μm	10 μm	
Rear Surface	-	Insulative Adhesion Type		30 μm	10 μm	30 μm	10 μm	
Structure Layer	1	3	3	4	4	4	4	5
Total Thickness	25um	55um	35um	85um	65um	65um	45um	125um
Heat Resistance	400 °C	200 °C	200 °C	200 °C	200 °C	200 °C	200 °C	200 °C

LST-GTM-025 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