

## DESCRIPTION

LISAT LST-GTM-100 Graphite Thermal Material is a material with high thermal conductivity, high flexibility and high crystallized graphite. Series 100 Graphite Thermal Material is made from carbon materials 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 shapes and size.



### Features

- Thermal conductivity 1000 W/m-K
- Good EMI shielding and absorbing
- Reliable Temperature -40 °C to 400 °C
- RoHS compliant and UL94 V0 rated
- Offered in thickness 0.070 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 "hots pots"
- Can replace grease, eliminate fans and heat pipes

## LST-GTM-100 Characteristics

Properties	
Color	Silver Gray
Thickness (mm)	0.100
Density (g/cm <sup>3</sup> )	0.85
Typical Thermal Conductivity (X - Y Direction), (W/m-K)	700
Typical Thermal Conductivity (Z Direction), (W/m-K)	26
Thermal Diffusivity (cm <sup>2</sup> /s)	8 ~ 10
Tensile Strength (Mpa)	20
Electrical Conductivity (S/cm)	10,000
CTE (Coefficient of Thermal Expansion) (1/K)	9.3 X 10 <sup>-7</sup>
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-100-**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 um	10 um	30 um	10 um	30 um	10 um	
Structure Layer	1	3	3	4	4	4	4	5
Total Thickness	100um	130um	110um	160um	140um	140um	120um	2000um
Heat Resistance	400 °C	200 °C	200 °C	200 °C	200 °C	200 °C	200 °C	200 °C

LST-GTM-100 available with Polyester Tape or with 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