

## DESCRIPTION

LISAT LST-GTM-010 Graphite Thermal Material is a material with high thermal conductivity, high flexibility and high crystallized graphite. LST-GTM-010 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 profile.



### Features

- Thermal conductivity (X-Y) 1750 W/m-K
- Good EMI shielding and absorbing
- 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-GTM-010 Characteristics

Properties	
Color	Silver Gray
Thickness (mm)	0.010
Density (g/cm <sup>3</sup> )	2.13
Typical Thermal Conductivity (X - Y Direction), (W/m-K)	1,750
Typical Thermal Conductivity (Z Direction), (W/m-K)	10
Thermal Diffusivity (cm <sup>2</sup> /s)	10 ~ 12
Tensile Strength (Mpa)	40
Electrical Conductivity (S/cm)	20,000
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-010-P10 G A10

① ② ③

①

**P10** : P = PET

10 = Thickness 10, 30 or 50um

②

**G** : GTM = Graphite Thermal Material  
Composite Position

③

**A10** : A = Adhesive 10um

10 = Thickness 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	10um	40um	20um	70um	50um	50um	30um	110um
Heat Resistance	400 °C	200 °C	200 °C	200 °C	200 °C	200 °C	200 °C	200 °C

LST-GTM-010 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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