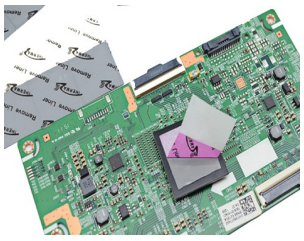
TIC®800H Series
Thermal Conductive Phase Change Material

TIC®800H Series is an ultra-high thermal conductivity phase change material with a unique grain orientation structure. This structure achieves directional optimization of the heat flow path through micro ordered arrangement, significantly doubling the macroscopic thermal conductivity efficiency. When the temperature exceeds the phase transition point of 50 ℃, the material can soften and infiltrate the interface, filling micro irregular gaps, and ultimately forming a heat conduction channel with extremely low thermal resistance at the contact surface, improving the efficiency of the heat dissipation system.



Features

- 》 Excellent thermal conductivity
- 》 Good process compatibility
- 》 Soft surface and self adhesive
- 》 Low thermal resistance

Applications

- 》 Power conversion equipment
- 》 Payload processor
- 》 Server CPU
- 》 GPU cooling

Typical Properties of TIC®800H Series

Product Name	TIC®808H	TIC®810H	TIC®812H	Test Method
Color	Gray			Visual
Thickness (inch/mm)	0.008 0.20	0.010 0.25	0.012 0.30	ASTM D374
Density (g/cm^3)	2.7			ASTM D792
Recommended Operating Temperature (°C)	-40~125			ZKTM J025
Phase Change Temperature (°C)	50~60			ZKTM J052
Thermal Conductivity (W/m·K)	7.5			ASTM D5470
	7.5			ISO22007
Thermal Impedance (°C·in^2/W) @50psi	0.013	0.014	0.015	ASTM D5470
Flame Rating	V-0			Equivalent to UL94

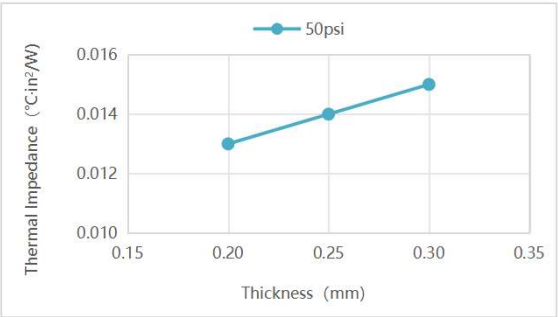
Product Specifications

Standard Thickness: 0.008"(0.20 mm), 0.010"(0.25 mm), 0.012"(0.30 mm)

Standard Size: 15.748" × 6.299"(400 mm × 160 mm)

TIC®series can be molded into different shapes to provide. If you need different thicknesses and specifications or would like to learn more about thermal conductive materials, please contact our company.

Thermal Impedance



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