TIC®800A Series Low-Melting Thermal Interface Material Specification

TIC®800A series is a high-performance, cost-effective thermal interface material featuring a unique grain-oriented structure that enables precise conformity to device surfaces, thereby enhancing the thermal conduction path and transfer efficiency. When the temperature exceeds its phase transition point of 50°C, the material softens and undergoes phase change, effectively filling microscopic and uneven gaps between components to form a low thermal resistance interface, significantly improving heat dissipation performance.

Features

》Low thermal resistance

》Self-adhesive with no need for additional surface adhesives

》Low-pressure application environment

Application

》Power conversion equipment

》Power supply and vehicle storage battery

》Large communication switch hardware

》LED TV, Lighting

》Laptop computer

Typical Properties of TIC®800A

Product Name	TIC®805A	TIC®806A	TIC®808A	TIC®810A	TIC®820A	Test method
Color	Gray					Visual
Thickness (inch/mm)	0.005" (0.127)	0.006" (0.152)	0.008" (0.203)	0.010" (0.254)	0.020" (0.508)	ASTM D374
Density (g/cc)	2.5					ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 125					Ziitek Test Method
Phase Change Softening Temperature (°C)	50 ~ 60					Ziitek Test Method
Thermal Conductivity (W/mK)	2.5					ASTM D5470
Thermal Impedance (°C·in^2/W) @ 50 psi	0.055	0.060	0.062	0.074	0.095	ASTM D5470

Standard Thickness: 0.005” (0.127 mm), 0.006” (0.152 mm), 0.008” (0.203 mm), 0.010” (0.254 mm), 0.020” (0.508 mm)
For other thickness options, please contact us.

Standard Size: 10” × 16” (254 mm × 406 mm), 16” × 400’ (406 mm × 122 m).

TIC®800A series is supplied with a white release liner and backing pad. Die-cutting with half-cut processing can include pull tabs. Custom-shaped samples are also available.

Pressure-Sensitive Adhesive: Not applicable to TIC®800A series products. Reinforcement Material: No reinforcement material required.

Global solutions:Local support
China:+86-769-38801208
Taiwan:+886-2-2277-1007
Canada:+001-604-2998559
Vietnam:+84-396852859

service@ziitek.com

www.ziitek.com