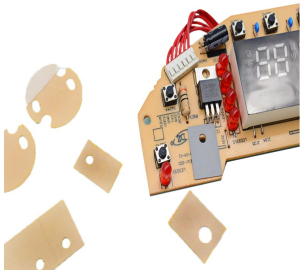


TIC[®]800K series is a high thermal conductivity and high dielectric constant insulating pad. It consists of a polyimide film substrate coated with a low-melting-point phase change material filled with ceramic blend. At 50°C, the material surface begins to soften and flow, effectively filling microscopic surface irregularities between the heat sink and the integrated circuit board, thereby reducing thermal resistance and enhancing heat transfer efficiency.



Application

- » Power conversion equipment
- » Power semiconductors, MOSFETs, and IGBTs
- » Audio and video components
- » Automotive control units
- » Motor controllers
- » General high voltage interface

Features

- » The surface is relatively soft and has good heat conductivity
- » Good dielectric strength
- » High-voltage insulation, low thermal resistance
- » Anti-tear, anti-puncture

Typical Properties of TIC[®]800K Series

Product Name	TIC [®] 805K	TIC [®] 806K	TIC [®] 808K	Test Method
Color	Light Amber			Visual
Composite thickness(inch/mm)	0.004"/0.102 mm	0.005"/0.127 mm	0.006"/0.152 mm	ASTM D374
Polyimide film thickness(inch/mm)	0.001"/0.0254 mm	0.001"/0.0254 mm	0.002"/0.0508 mm	ASTM D374
Aggregate thickness(inch/mm)	0.005"/0.127 mm	0.006"/0.152 mm	0.008"/0.203 mm	ASTM D374
Specific Gravity (g/cc)	2.0			ASTM D792
Specific heat volume (J/g·K)	1.0			ASTM C351
Tensile Strength (MPa)	≥110			ASTM D412
Recommended OperatingTemp (°C)	-45~125			Ziitek Test Method
Electrical				
Dielectric Breakdown Voltage (VAC)	> 5000			ASTM D149
Dielectric Constan @1MHz	1.8			ASTM D150
Volume Resistivity (Ohm·cm)	3.5X10 ¹⁴			ASTM D257
Thermal				
Thermal Conductivity (W/mK)	1.6			ASTM D5470
Thermal Impedance (°C·in ² /W) @50psi	0.12	0.13	0.16	ASTM D5470

Standard Thickness: 0.005" (0.127 mm) / 0.006"(0.152 mm) / 0.008"(0.203 mm) For other thickness options, please contact us.

Standard Size: 10" x 100'(254 mm x 30 m), individual die cut shapes can be supplied.

Peressure Sensitive Adhesive: Not applicable to TIC[®]800K series products.

Reinforcement: TIC[®]800K series is reinforced with polyimide film.

Global solutions:Local support

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