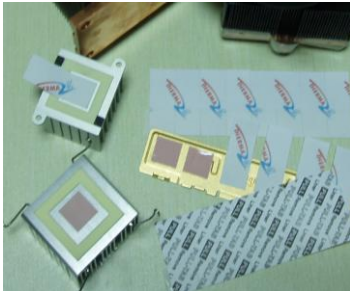


The TIC™800K Series products is a high thermal conduction and dielectric performance insulator pad consisting of a ceramic filled low melting point compound coated on MT Kapton film.

At 50°C, TIC™800K Series surface begins to soften and flow, filling the microscopic irregularities of both the thermal solution and the integrated circuit package surface, thereby reducing thermal resistance



Feature

- 》 Highly compliant surface characteristic with high thermal conductivity
- 》 High thermal conductive and High dielectric strength
- 》 Low thermal resistance with high voltage isolation
- 》 Resistant to tears and punctures

Application

- 》 Power conversion equipment
- 》 Power semiconductors: T0 packages, MOSFETs & IGBTs
- 》 Audio and Video components
- 》 Automotive control units
- 》 Motor controllers
- 》 General high pressure interface

Typical Properties of TIC™800K series

Product Name	TIC™805K	TIC™806K	TIC™808K	Test Method
Color	Light Amber			Visual
Composite Thickness	0.004"/0.102mm	0.005"/0.127mm	0.006"/0.152mm	ASTM D374
MT Kapton® Thickness	0.001"/0.025mm	0.001"/0.025mm	0.002"/0.050mm	ASTM D374
Total Thickness	0.005"/0.127mm	0.006"/0.152mm	0.008"/0.203mm	ASTM D374
Specific Gravity	2.0 g/cc			ASTM D297
Heat Capacity	1 J/g-K			ASTM C351
Tensile Strength	>13.5 Kpsi	>13.5 Kpsi	>13.5 Kpsi	ASTM D412
Continuous Use Temp	(-58 to 266°F) / (-50 to 130°C)			***
Electrical				
Dielectric Breakdown Voltage	>4000 VAC	>4000 VAC	>5000 VAC	ASTM D149
Dielectric Constant	1.8 MHz			ASTM D150
Volume Resistivity	3.5X10 ¹⁴ Ohm-meter			ASTM D257
Thermal				
Thermal Conductivity	1.6 W/m-K			ASTM D5470
Thermal Impedance @50psi	0.12°C -in ²W	0.13°C -in ²W	0.16°C -in ²W	ASTM D5470

Standard Thicknesses:

0.005"(0.127mm) 0.006"(0.152mm) 0.008"(0.203mm)

Individual die cut shapes and custom thickness can be supplied. Please contact us for confirming.

Standard Sizes :

10" x 100"(254mm x 30.48M) Individual die cut shapes can be supplied.

Pressure Sensitive Adhesive :

Pressure Sensitive Adhesive is not applicable for TIC™800K series products.

Reinforcement:

TIC™800K series sheets are Kapton® reinforced.



Gap Fillers

Phase Change Materials

Thermally Conductive Insulators

Thermally Conductive Greases

Canada:

TEL: +001-604-2998559
E-mail: sales@thermazig.com
<http://www.thermazig.com>

Taiwan:

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