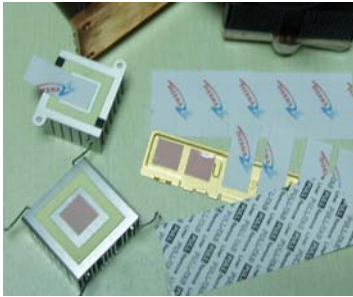


The TIC™800K Series products is a high thermal conduction and dielectric performance insulator pad consisting of a ceramic filled low melting point compound coated on MT Kapton film.

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™804K	TIC™805K	TIC™806K	Test Method
Color	Light Amber			Visual
Composite Thickness	0.003"/0.762mm	0.004"/0.103mm	0.004"/0.102mm	ASTM D374
MT Kapton® Thickness	0.001"/0.025mm	0.001"/0.025mm	0.002"/0.050mm	ASTM D374
Total Thickness	0.004"/0.102mm	0.005"/0.127mm	0.006"/0.152mm	ASTM D374
Specific Gravity	2.0 g/cc			ASTM D297
Heat Capacity	1 l/g-K			ASTM C351
Tensile Strength	>13.5 Kpsi	>13.5 Kpsi	>17.8 Kpsi	ASTM D412
Continuous Use Temp	(-58 to 266°F) / (-50 to 130°C)			***
Electrical				
Dielectric Breakdown Voltage	>4000 VAC	>5000 VAC	>6000 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 ² /W	0.16°C -in ² /W	0.21°C -in ² /W	ASTM D5470

Standard Thicknesses:

0.004"(0.102mm) 0.005"(0.127mm) 0.006"(0.152mm)

Consult the factory alternate thickness.

Standard Sizes :

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

Peressure Sensitive Adhesive :

Peressure 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

Thermally Conductive Adhesive Tapes

Canada: TEL:+001-604-2998559 E-mail: sales@thermazig.com Http://www.thermazig.com	Taiwan: TEL: +886-2-22999766 E-mail: sales@ziitek.com.tw Http://www.ziitek.com.tw	Dongguan: TEL: +86-769-81017480 E-mail: sales@ziitek.com Http://www.ziitek.com	Kunshan: TEL: +86-512-57816297 E-mail: sales@ziitek.com	Chengdu: TEL: +86-28-62379168 E-mail: sales@ziitek.com
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