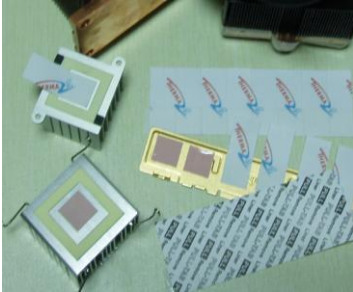


The TIC™800P-K1 Series product is a high thermal conductivity and dielectric performance insulator pad consisting of a ceramic-filled, low-melting-point compound coated on MT Kapton film. At 50°C, the surface of the TIC™800P-K1 Series begins to soften and flow, filling the microscopic irregularities 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™800P-K1 series

| Product Name | TIC™804P-K1 | TIC™805P-K1 | TIC™806P-K1 | Test Method |
|-------------------------------------|----------------------|----------------|----------------|--------------------|
| Color | Pink/Light Amber | | | Visual |
| Composite Thickness | 0.003"/0.762mm | 0.004"/0.102mm | 0.005"/0.127mm | ASTM D374 |
| MT Kapton® Thickness | 0.001"/0.025mm | 0.001"/0.025mm | 0.001"/0.025mm | ASTM D374 |
| Total Thickness | 0.004"/0.102mm | 0.005"/0.127mm | 0.006"/0.152mm | ASTM D374 |
| Density (g/cm³) | 2.0 | | | ASTM D297 |
| Continuous Use Temp (°C) | -45~125 | | | Ziitek test method |
| Electrical | | | | |
| Dielectric Breakdown Voltage (VAC) | >3000 | >3500 | >5000 | ASTM D149 |
| Dielectric Constant @ 1MHz | 3.8 | | | ASTM D150 |
| Volume Resistivity (Ohm-meter) | 3.5*10 ¹² | | | ASTM D257 |
| Thermal Conductivity (W/m-K) | 1.6 | | | ASTM D5470 |
| Thermal Impedance @50psi (°C-in²/W) | 0.12 | 0.16 | 0.21 | 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™800P-K1 series products.

Reinforcement:

TIC™800P-K1 series sheets are Kapton® reinforced.

Gap Fillers

Phase Change Materials

Thermally Conductive Insulators

Thermally Conductive Greases

加拿大Canada
TEL: +001-604-2998559
E-mail: frances@ziitek.com.tw
[Http://www.thermazig.com](http://www.thermazig.com)

台灣Taiwan
TEL: +886-2-22771007
E-mail: frances@ziitek.com.tw
[Http://www.ziitek.com.tw](http://www.ziitek.com.tw)

东莞Dongguan
TEL: +86-769-38801208
E-mail: frances@ziitek.com.tw
[Http://www.ziitek.com.cn](http://www.ziitek.com.cn)

昆山Kunshan
TEL: +86-512-57816297
E-mail: kelvin@ziitek.com
[Http://www.ziitek.com.cn](http://www.ziitek.com.cn)

杭州Hangzhou
TEL: +86-571-63850366
E-mail: alex@ziitek.com
[Http://www.ziitek.com.cn](http://www.ziitek.com.cn)

长沙Changsha
TEL: +86-731-86949836
E-mail: jor@ziitek.com
[Http://www.ziitek.com.cn](http://www.ziitek.com.cn)