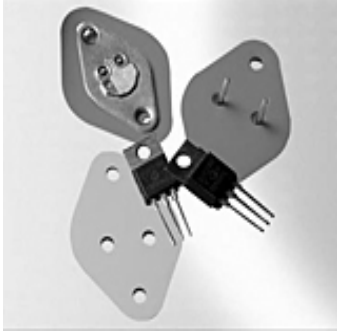




專業導熱材料生產廠
Professional TIM Manufacturer
<http://www.ziitek.com>

TIS™ 800 Series Thermally Conductive Insulators

The TIS™800 Series products are the high-efficiency insulation ones with thermal conduction properties. The supplement of the insulation base film made by silica gel into the heat-conduction material creates a great effect on both the insulation and heat conduction.



Application

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

Feature

- › Good thermal conductive: **1.6W/mK**
- › High dielectric strength
- › Low thermal resistance with high voltage isolation
- › Resistant to tears and punctures

Typical Properties of TIS™800 series

Product Name	TIS™806	TIS™808	TIS™810	TIS™812	TIS™818	Test Method
Color	Gray	Gray	Gray	Gray	Gray	Visual
Construction & Composition	Ceramic filled silicone elastomer					***
Thickness	0.006"/0.152mm	0.008"/0.203mm	0.010"/0.254mm	0.012"/0.304mm	0.018"/0.457mm	ASTM D751
Specific Gravity	2.2 g/cc					ASTM D297
Heat Capacity	1 l/g-K					ASTM C351
Hardness	65 Shore A					ASTM 2240
Tensile Strength	450 psi	>600 psi	>600 psi	>600 psi	>600 psi	ASTM D412
Continuous Use Temp	(-58 to 356°F) / (-50 to 180°C)					***
Electrical						
Dielectric Breakdown Voltage	>1500 VAC	>3500 VAC	>5000 VAC	>5000 VAC	>5000 VAC	ASTM D149
Dielectric Constant	5.5 MHz					ASTM D150
Volume Resistivity	5.0X10 ¹⁰ Ohm-meter					ASTM D257
Flame Rating	94 V0					E331100
Thermal						
Thermal Conductivity	1.6 W/m-K					ASTM D5470
Thermal Impedance @50psi	0.21°C-in²/W	0.35°C-in²/W	0.82°C-in²/W	1.23°C-in²/W	1.83°C-in²/W	ASTM D5471

Standard Thicknesses: 0.006"(0.152mm) 0.008"(0.203mm) 0.010"(0.254mm) 0.012"(0.304mm) 0.018"(0.457mm)
Consult the factory alternate thickness.

Standard Sizes: 8" x 16"(203mm x 406mm)
Individual die cut shapes can be supplied.

Peressure Sensitive Adhesive: Request adhesive on one side with "A1" suffix.
Request adhesive on doule side with "A2" suffix.

Reinforcement: TIS series sheets are fiberglass reinforced.

Gap Fillers | Phase Change Materials | Thermally Conductive Insulators | Thermally Conductive Greases | Thermally Conductive Adhesive Tapes

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