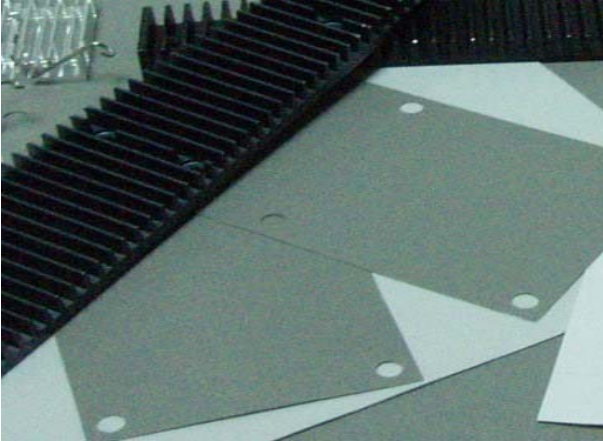


The TIS™800 Series products are the high-efficiency insulation ones with thermal conduction properties. The supplement of the insulation base film made by silica gel into the heat-conduction material creates a great effect on both the insulation and heat conduction.



导热绝缘材料

TIS™800系列产品是高效绝缘产品，它也具备导热性能。它是将绝缘性的硅胶基材加入到导热材料当中去，从而达到既能绝缘又能导热的效果。

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

特性

- 》 表面较柔软,良好的导热率
- 》 良好传导率,良好电介质强度
- 》 高压绝缘,低热阻
- 》 抗撕裂,抗穿刺

Application

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

应用

- 》 电力转换设备
- 》 功率半导体器件:
T0 集成块, MOSFETs & IGBTs
- 》 视听产品
- 》 汽车控制装置
- 》 电动机控制设备
- 》 普通高压接合面



TIS™ 800 Series

Thermally Conductive Insulators

Typical Properties of TIS™800 Series

TIS™800系列特性表

Product Name(產品名稱)	TIS™806	TIS™808	TIS™810	TIS™812	TIS™818	Test Method
Color(顏色)	Gray	Gray	Gray	Gray	Gray	Visual
Construction & Composition (結構&成分)	Ceramic filled silicone elastomer / 陶瓷填充硅膠彈性體					***
Thickness(厚度)	0.006"/0.152mm	0.008"/0.203mm	0.010"/0.254mm	0.012"/0.304mm	0.018"/0.457mm	ASTM D751
Specific Gravity(比重)	2.2 g/cc					ASTM D297
Heat Capacity(熱容積)	1 l/g-K					ASTM C351
Hardness(硬度)	50 Shore A					ASTM 2240
Tensile Strength, (抗張強度)	450 psi	>600 psi	>600 psi	>600 psi	>600 psi	ASTM D412
Continuous Use Temp (使用溫度範圍)	(-58 to 356°F) / (-50 to 180°C)					***
Electrical(電性)						
Dielectric Breakdown Voltage (擊穿電壓)	>1500 VAC	>3500 VAC	>5000 VAC	>5000 VAC	>5000 VAC	ASTM D149
Dielectric Constant (介電常數)	5.5 MHz					ASTM D150
Volume Resistivity (體積電阻率)	5.0X10 ¹⁰ Ohm-meter					ASTM D257
Flame Rating	94 V0					equivalent UL
Thermal(導熱)						
Thermal Conductivity (導熱率)	1.6 W/m-K					ASTM D5470
Thermal Impedance(熱阻抗) @50psi	0.21°C-in ² /W	0.35°C-in ² /W	0.82°C-in ² /W	1.23°C-in ² /W	1.83°C-in ² /W	ASTM D5471

Standard Thicknesses(標準厚度):

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.(如需不同厚度請與本公司聯繫。)

Standard Sizes(標準尺寸):

8" x 16"(203mm x 406mm)

Individual die cut shapes can be supplied.(TIS™800 系列可模切成不同形狀提供。)

Peressure Sensitive Adhesive(壓敏黏合劑):

Request adhesive on one side with "A1" suffix.("A1" 尾碼標示為單面黏性。)

Request adhesive on doule side with "A2" suffix.("A2" 尾碼標示為雙面黏性。)

Reinforcement(補強材料):

TIS™ series sheets are fiberglass reinforced.(TIS™系列板材代玻璃纖維為補強。)

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



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