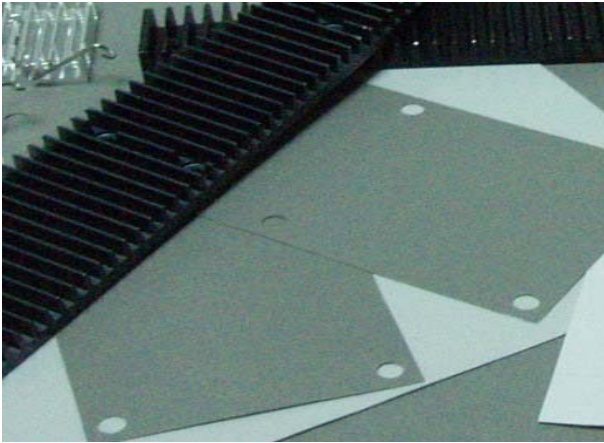




TIS™ 100 Series

Thermally Conductive Insulators

The TIS™100 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™100 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

Application

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

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

应用

- 》 电力转换设备
- 》 功率半导体器件: TO 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

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



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TIS™ 100 Series

Thermally Conductive Insulators

Typical Properties of TIS™100 Series

TIS™100 系列特性表

Product Name(產品名稱)	TIS™100-01			TIS™100-02			TIS™100-03			TIS™100-05			Test Method
Color(顏色)	Grey			Pink			Yellow			Blue			Visual
Construction & Composition (結構&成分)	Ceramic filled silicone elastomer			Ceramic filled silicone elastomer			Ceramic filled silicone elastomer			Ceramic filled silicone elastomer			***
Thickness(厚度)	9/0.23	12/0.3	18/0.45	9/0.23	12/0.3	18/0.45	9/0.23	12/0.3	18/0.45	9/0.23	12/0.3	18/0.45	ASTM 2240
Specific Gravity(比重)	1.75			1.75			1.75			1.75			ASTM D297
Heat Capacity(熱容積)	1.0			1.0			1.0			1.0			ASTM C351
Hardness(硬度)	50			50			50			50			ASTM D751
Tensile Strength, (抗張強度)	425			425			425			425			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)	>3500			>3500			>3500			>3500			ASTM D149
Dielectric Constant (介電常數)	5.5			5.5			5.5			5.5			ASTM D150
Volume Resistivity (體積電阻率)	3.5X10"			3.5X10"			3.5X10"			3.5X10"			ASTM D257
Flame Rating	94 V0			94 V0			94 V0			94 V0			equivalent UL
Thermal(導熱)													
Thermal Conductivity (導熱率)	1.0			1.0			1.0			1.0			ASTM D5470
Thermal Impedance(熱阻抗) @50psi	1.52	2.35	3.45	1.52	2.35	3.45	1.52	2.35	3.45	1.52	2.35	3.45	ASTM D5470

Standard Thicknesses:

0.009"(0.228mm) 0.012"(0.304mm)

0.018"(0.457mm)

Consult the factory alternate thickness.

Standard Sizes:

12" x 160'(304mm x 48.76M)

Individual die cut shapes can be supplied.

Pressure Sensitive Adhesive:

Request adhesive on one side with "A1" suffix.

Request adhesive on double side with "A2" suffix.

Reinforcement:

TIS™ series sheets are fiberglass reinforced.

標準厚度:

0.009"(0.228mm) 0.012"(0.304mm)

0.018"(0.457mm)

如需不同厚度請與本公司聯繫。

標準尺寸:

12" x 160'(304mm x 48.76M)

TIS™800 系列可模切成不同形狀提供。

壓敏黏合劑:

"A1" 尾碼標示為單面黏性。

"A2" 尾碼標示為雙面黏性。

補強材料:

TIS™系列板材代玻璃纖維為補強。

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