

## High Performance Electric & Thermal Conductive Interface Material

TIR™600-10 Series products are high-performance and heat-conductive interface materials with the reasonable prices. They can be used in applications where no requirement for electric insulation is specified. The unique grain orientation and plate structure enable these products to adapt to different contact surfaces closely, and thus the maximized heat conduction function is attained.



### 超高导热导电材料

TIR™600-10系列为高性能价格合理的导热界面材料，应用于没有电绝缘要求的场合。其独特的产品晶粒取向和板状结构使得本系列产品能紧密地顺应不同的接触面，因而得到最大化的热传导功能。

### Feature

- › High thermal conductive of **10.0W/mK**
- › Low thermal resistance

### Application

- › Power conversion equipment
- › Power supplies
- › Large telecommunications switching hardware
- › Notebook computers

### 特性

- › 高热传导率 **10.0W/mK**
- › 低热阻

### 应用

- › 电力转换设备
- › 电源装置
- › 大型远程通讯开关硬件
- › 笔记本电脑

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



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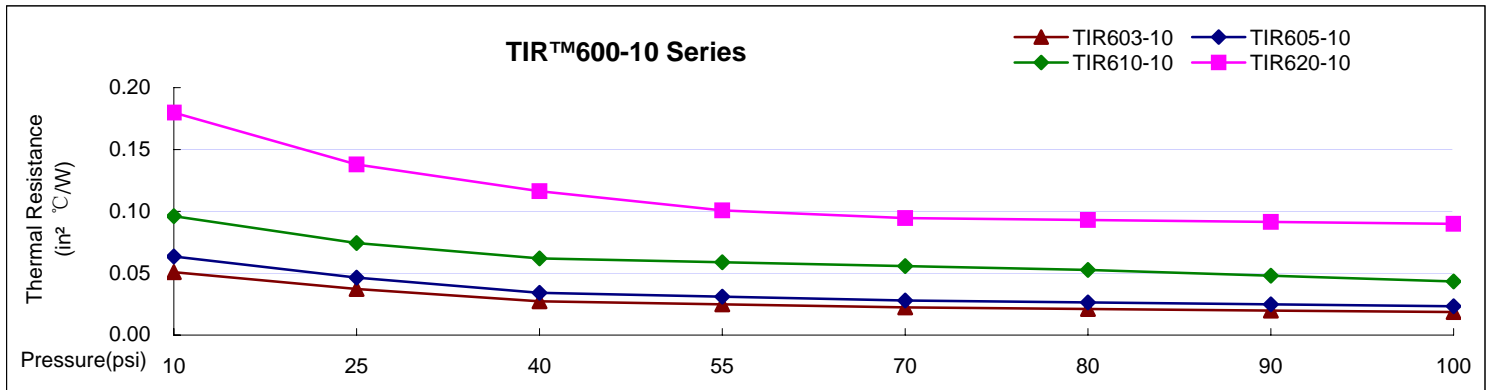
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### Typical Properties of TIR™600-10 Series

#### TIR™600-10系列特性表

Product Name/产品名称	TIR™603-10	TIR™605-10	TIR™610-10	TIR™620-10	Test Method
Material/材料	Natural Graphite/天然石墨				
Cooler/顏色	Black/黑				Visual
Thickness/厚度(in/mm)	0.0035" (0.089mm)	0.005" (0.127mm)	0.010" (0.254mm)	0.020" (0.508mm)	
Thickness Tolerance/厚度公差	+/- 10%	+/- 10%	+/- 5%	+/- 5%	
Density/密度	2.2 g/cc				
Hardness/硬度	85 Shore A				ASTM D2240
Typical Thermal Conductivity/導熱率 (In Z axis/Z軸方向)	10.0W/m-K				ASTM D5470
Typical Thermal Conductivity/導熱率 (In X-Y axis / X-Y軸方向)	150W/m-K				ASTM D5470
Tensile Strength/抗張強度	270psi (1800kpa)	270psi (1800kpa)	470psi (3200kpa)	470psi (3200kpa)	ASTM D5470
Thermal Resistance/熱阻抗 (@100psi)	0.012 in <sup>2</sup> °C/W	0.016 in <sup>2</sup> °C/W	0.042 in <sup>2</sup> °C/W	0.087 in <sup>2</sup> °C/W	ASTM D5470
Temperature Range/運作溫度	-200°C ~ 300°C				

#### Thermal Resistance v. Interface Pressure



#### Product Identification

Example: TIR™605-10-P1-A1

**TIR6 05 - 10 - P1 - A1**

- Adhesive: •A1-adhesive on one side •A2-adhesive on two side
- Insulation: •P1-Plastic on one side
- Thermal Conductivity: •10.0W/m-K
- Thickness: • 3mils • 5mils • 10mils • 20mils
- Product Number

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