



**TIS™ 100-59-A1** Series products are the high-efficiency insulation ones with thermal conduction properties. The supplement of the insulation base film made by silicagel into the heat-conduction material creates a great effect on both the insulation and heat conduction.

### Feature

- » Thermal Conductivity **1.0W/mK**
- » High thermal conductive and High dielectric strength
- » Low thermal resistance with high voltage isolation
- » Resistant to tears and punctures

### Application

- » Car Battery & Power Supply
- » Power semiconductors
- » Audio and Video components
- » Motor controllers



## Typical Properties of TIS100-59-A1 Series

Typical Properties	TIS110FG-59-A1	TIS118FG-59-A1	TIS122FG-59-A1	测试方法
Color	Light green			目視
Construction & Composition	Ceramic filled silicone elastomer / Fiberglass			*****
Continuous Use Temp	-45 °C to 120 °C			*****
Thickness	0.01" 0.25mm	0.018" 0.45mm	0.022" 0.55mm	ASTM D374
Voltage Breakdown	> 5000 Vac	> 5000 Vac	> 5000 Vac	ASTM D149
Thermal Conductivity	1.0 W/mK			ASTM D5470
Specific Gravity	1.51g/cc			ASTM D297
Volume Resistivity	4.2X10 <sup>13</sup> Ohm-meter			ASTM D257
Dielectric Constant	4.5 MHz			ASTM D150
Flame Rating	94 V0			UL E331100

### Standard Thicknesses:

0.01"(0.25mm)    0.018"(0.45mm)    0.022"(0.55mm)

Consult the factory alternate thickness.

### Peressure Sensitive Adhesive:

Fiberglass with "FG" suffix.

Request adhesive one side with "A1" suffi

### Standard Sizes:

12" x 160'(304mm x 48.76M) Individual die cut shapes can be supplied.

If you want to know our thermal Products, you can visit our website. <http://www.ziitek.com>



Gap Fillers | Pouring sealant | Silicon tape | Thermally Conductive paste | Flake graphite | Thermally Conductive Insulators | Ceramic heat sinks  
| Thermally Conductive plastic | Thermally Conductive Adhesive Tapes

加拿大Canada  
TEL: +001-604-2998559  
E-mail: frances@ziitek.com.tw  
<http://www.thermaziq.com>

台湾Taiwan  
TEL: +886-2-22771007  
E-mail: frances@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>

昆山Kunshan  
TEL: +86-512-57816297  
E-mail: kelvin@ziitek.com  
<http://www.ziitek.com.cn>

杭州Hangzhou  
TEL: +86-571-63850366  
E-mail: alex@ziitek.com  
<http://www.ziitek.com.cn>

长沙Changsha  
TEL: +86-731-86949836  
E-mail: jor@ziitek.com  
<http://www.ziitek.com.cn>