



**TIS™100-03** 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.

### Feature

- » 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 TIS100-03 Series

Product Name	TIS109-03	TIS112-03	TIS118-03	Test Method
Color	Yellow			Visual
Construction & Composition	Ceramic filled silicone elastomer / Fiberglass			*****
Thickness	0.23mm	0.3mm	0.45mm	ASTM D374
Specific Gravity	1.768g/cc			ASTM D297
Hardness	50 Shore 00			ASTM D751
Tensile Strength	425 Kpsi			ASTM D412
Continuous Use Temp	-45 °C to 180 °C			*****
Dielectric Breakdown Voltage	>3500 Vac			ASTM D149
Dielectric Constant	5.5 MHz			ASTM D150
Volume Resistivity	4.0X10 <sup>3</sup> Ohm-meter			ASTM D257
Flame Rating	94 V0			E331100
Thermal Conductivity	1.0 W			ASTM D5470

### Standard Thicknesses:

0.009"(0.228mm) 0.012"(0.304mm) 0.018"(0.457mm)

Consult the factory alternate thickness.

### Pressure Sensitive Adhesive:

Request adhesive on one side with "A1" suffix.

Request adhesive on double side with "A2" suffix.

### 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

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