



TIS™100-86/50 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.

Typical Properties of TIS™100-86/50Series		
Color	Pink	Visual
Construction	Ceramic filled silicone elastomer	*****
Thickness range	0.125mm-0.500mm	ASTM D374
Hardness	75 Shore C	ASTM 2240
Specific Gravity	1.97 g/cc	ASTM D297
Tensile Strength	1.3N/mm ²	ASTM D412
Continuous Use Temp	-60~250°C	*****
Dielectric Breakdown Voltage	>1.50 VAC	ASTM D149
Dielectric Constant@1MHz	2.3 MHz	ASTM D150
Volume Resistivity	1.3x10 ¹⁴ Ohm-meter	ASTM D257
Thermal Conductivity	3.5 W/mK	ASTM D5470
	3.5W/mK	GB-T32064
Flame Rating	94 V0	UL E331100

Features

- » 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

Product Specification

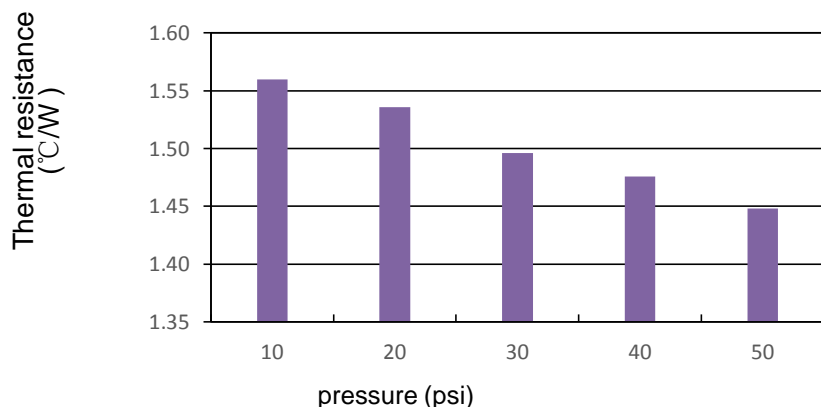
Product Thicknesses

- TIS 105-86/50: 0.125mm
- TIS 109-86/50: 0.225mm
- TIS 112-86/50: 0.300mm
- TIS 116-86/50: 0.400mm
- TIS 120--86/50: 0.500mm

Product Sizes

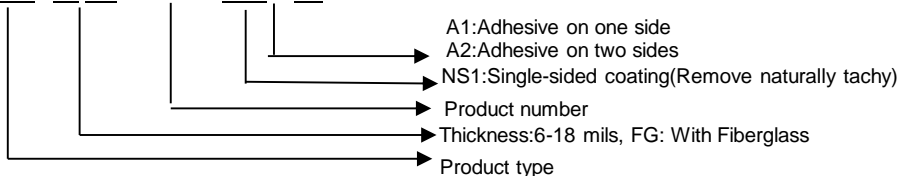
12" x 160'(304mm x 48.76M)
Individual die cut shapes and custom thickness can be supplied. Please contact us for confirming.
The product come standard with fiberglass reinforcement designated by the suffix " FG".

Psi. vs. Thermal Resistance



Product Identification:

TIS1 00 FG - 86/50 - NS1 - A1



Thermally Conductive Materials Heat Generating Materials Thermally Conductive Plastics
Foaming Silica Gel Die-Cutting Products

Canada:
Tel: +001-604-2998559
E-mail: sales@thermazig.com

China:
Tel: +86-769-38801208
E-mail: jor@ziitek.com

Taiwan:
Tel: +886-2-22771007
E-mail: frances@ziitek.com.tw

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Application Technology Download



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