

**TIS® 800-18-04** The series of products are highly efficient insulating products and they also have thermal conductivity. It achieves the effect of both insulation and heat conduction by adding insulating silicone base material to the heat-conducting material.

## 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

Typical Properties of TIS® 800-18-04		
Property	Value	Test method
colour	Black	Visual
Construction	Ceramic filled silicone elastomer / Fiberglass	-
Thickness range (inch/mm)	0.009~0.016/0.229~0.406	ASTM D374
Density (g/cc)	2.4	ASTM D297
Tensile Strength (MPa)	50	ASTM D 412
Recommended Operating Temperature (° C)	-60~180	-
Breakdown Voltage (V/mm)	6000	ASTM D149
Dielectric Constant @1MHz	8.0	ASTM D150
Volume Resistivity (Ohm-cm)	> 1x10 <sup>12</sup>	ASTM D257
Thermal Conductivity (W/mK)	1.8	ASTM D5470
	1.8	ISO22007-2.2
Thermal impedance (°C·in <sup>2</sup> /W) @30psi	0.51	ASTM D5470
Flame Rating	V-0	UL94 (E331100)

## Product Specification

**Standard thickness:** 0.009~0.016inch(0.229~0.406mm).

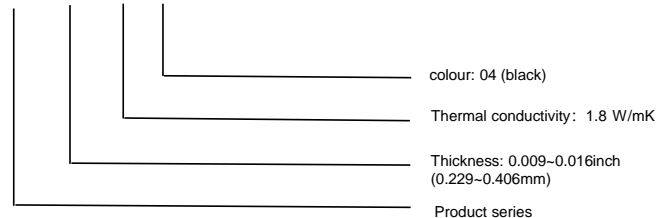
**Standard size:**

12" \* 160' (304 mm \* 48.76 m).

The TIS series can be die-cut into different shapes and provided. If you need different thicknesses, please contact our company.

## Product Identifier

**TIS8 00 - 18- 04**



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