

TIS[®]300-45 Series is a nickel/graphite-filled conductive and thermally conductive silicone sheet, specially developed for thermal management and electromagnetic interference suppression of 3C electronic products, high-frequency signal devices, and precision electromagnetic components. It features excellent thermal conductivity and surface resistivity, while providing high compressibility and soft elasticity, making it suitable for low-pressure installation environments. The TIS[®]300-45 series material is resistant to corrosion caused by leakage current and maintains its stability under harsh conditions.

Features

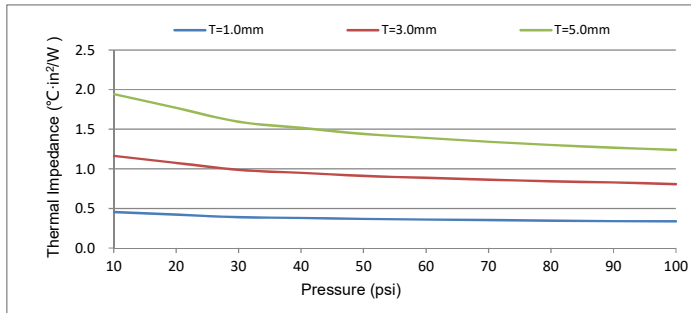
- » High thermal conductivity
- » Surface resistivity (Ohm·cm) : <math> < 1.0 \times 10^3 </math>
- » Good corrosion resistance
- » High compressibility, soft yet elastic, suitable for low-stress applications

Applications

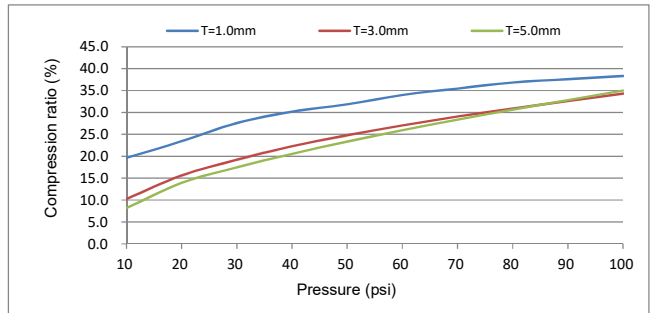
- » LED lighting
- » Noise suppression for 3C products
- » Absorption of high-order harmonic interference in RAM
- » Improvement of Wifi signal
- » Error rate in signal mode switching of mobile phones and other devices
- » Noise suppression of electromagnetic components in FPC, IC, and other electronic devices, such as laptops, tablets, etc.

Typical Properties of TIS [®] 300-45 Series		
Property	Value	Test method
Color	Dark Gray	Visual
Construction	Graphite nickel-plated filled silicone rubber	-
Thickness Range (inch/mm)	0.020~0.200 0.50~5.00	ASTM D374
Hardness (Shore OO)	70	ASTM D2240
Density (g/cm ³)	2.4	ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200	-
Surface Resistivity (Ohm·cm)	<math> < 1.0 \times 10^3 </math>	ASTM D257
Thermal Conductivity (W/m·K)	4.5	ASTM D5470
	4.5	ISO22007
Flame Rating	V-0	UL94 (E331100)

Thermal Impedance



Compression Ratio

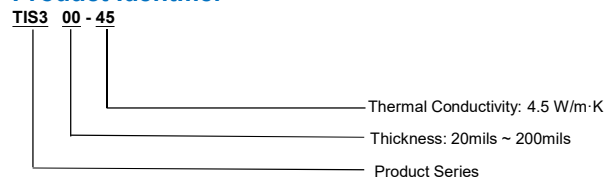


Product Specifications

Standard Thickness: 0.020" (0.50 mm)~0.200" (5.00 mm)
with increments of 0.010" (0.25 mm)
Standard Size: 10"×16" (254 mm×406 mm)

The TIS[®] series is available in custom shapes and various forms.
For other thicknesses or more information, please contact us.

Product Identifier



Global solutions: Local support

China: +86-769-38801208
Taiwan: +886-2-2277-1007
Canada: +001-604-2998559
Vietnam: +84-396852859

service@ziitek.com

www.ziitek.com

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TIS300-45-1025