

TIF[®]300 Series is an ultra-soft thermal interface material designed specifically to protect precision components that are extremely sensitive to mechanical stress. This product combines high thermal conductivity with exceptional gel-level softness, achieving a perfectly low-stress fit. It is suitable for addressing issues such as large tolerances, uneven surfaces, and the susceptibility of precision components to mechanical damage in high-precision assemblies.

Features

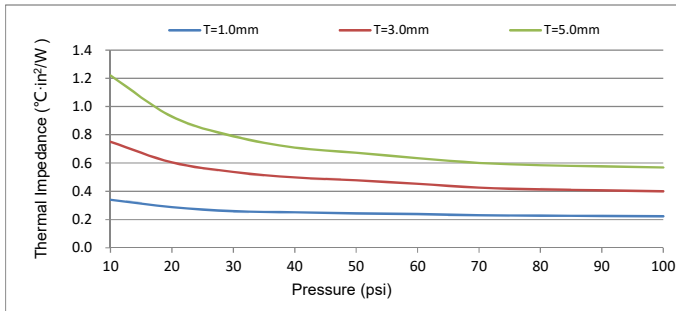
- » High thermal conductivity
- » Super soft and highly compliant
- » Self-adhesive without the need for additional surface adhesives
- » Good insulation performance

Applications

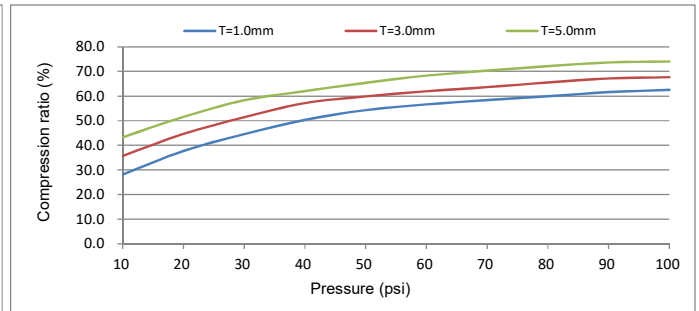
- » Power tools
- » Network communication products
- » Electric vehicle batteries
- » Computer CPU/GPU Cooling
- » New energy vehicle power systems

Typical Properties of TIF [®] 300 Series			
Property	Value		Test Method
Color	Dark Gray		Visual
Construction	Ceramic filled silicone elastomer		-
Thickness Range (inch/mm)	0.010~0.020 0.25~0.50	0.030~0.200 0.75~5.00	ASTM D374
Hardness (Shore OO)	65	27	ASTM D2240
Density (g/cm ³)	3.0		ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200		-
Breakdown Voltage (V/mm)	≥5500		ASTM D149
Dielectric Constant @1MHz	6.0		ASTM D150
Volume Resistivity (Ohm·cm)	> 1.0×10 ¹²		ASTM D257
Thermal Conductivity (W/m·K)	3.0		ASTM D5470
	3.0		ISO22007
Flame Rating	V-0		UL94 (E331100)

Thermal Impedance



Compression Ratio



Product Specifications

Standard Thickness: 0.010" (0.25 mm)~0.200" (5.00 mm)

with increments of 0.010" (0.25 mm)

Standard Size: 16"×16" (406 mm×406 mm)

Component Codes:

Reinforcement Fabric: FG (Fiberglass).

Coating Options: NS1 (Non-adhesive treatment),

DC1 (Single-sided hardening).

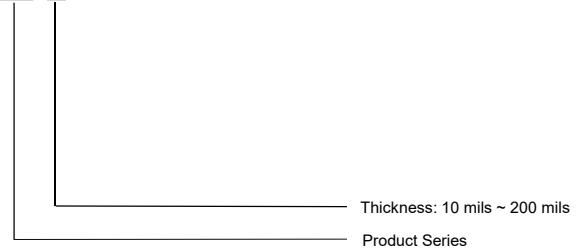
Adhesive Options: A1/A2 (Single-sided/Double-sided adhesive).

The TIF[®] series is available in custom shapes and various forms.

For other thicknesses or more information, please contact us.

Product Identifier

TIF3 00



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TIF300-0226