



TIF® 500-75-11US 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

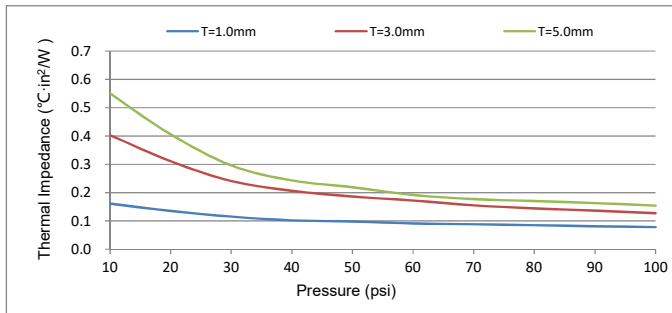
- » Excellent thermal conductivity
- » Super soft and highly compliant
- » Self-adhesive without the need for additional surface adhesives
- » Good insulation performance

Applications

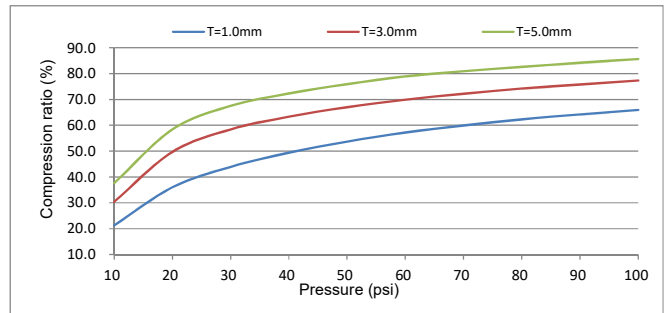
- » AI Servers
- » Semiconductor Packaging
- » Low-Altitude Aircraft
- » Optical Communication Products
- » 5G Base Stations

Typical Properties of TIF® 500-75-11US Series			
Property	Value		Test method
Color	Dark Gray		Visual
Construction	Ceramic filled silicone elastomer		-
Thickness Range (inch/mm)	0.020~0.030 0.50~0.75	0.040~0.200 1.00~5.00	ASTM D374
Hardness (Shore OO)	50	20	ASTM D2240
Density (g/cm ³)	3.45		ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200		-
Breakdown Voltage (V/mm)	≥ 5500		ASTM D149
Dielectric Constant @1MHz	8.0		ASTM D150
Volume Resistivity (Ohm·cm)	> 1.0×10 ¹²		ASTM D257
Thermal Conductivity (W/m·K)	7.5		ASTM D5470
	7.5		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: 16" × 16" (406 mm × 406 mm)

Component Codes:

Coating Options: NS1 (Non-adhesive treatment),

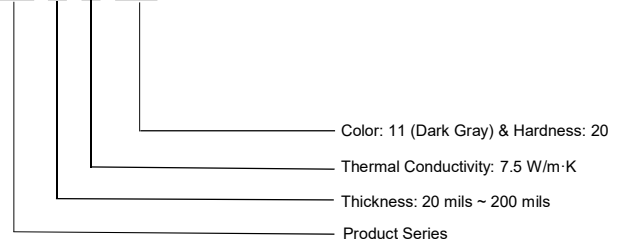
DC1 (Single-sided hardening).

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

TIF5 00 - 75 - 11US



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