



TIF[®]700PES Series is a thermal pad specifically designed to tackle the high level cooling challenges and environments sensitive to extreme mechanical stress. It combines excellent thermal conductivity with a near-fluid ultimate softness, ensuring perfect filling of the contact interface even under ultra-low mounting pressure, completely eliminating air thermal resistance, and providing superior thermal solutions and physical protection for the most precise and highest heat flux electronic components.

Features

- » Excellent thermal conductivity
- » Extremely soft, low compression stress effectively protects sensitive components
- » Self-adhesive without the need for additional surface adhesives
- » High insulation performance

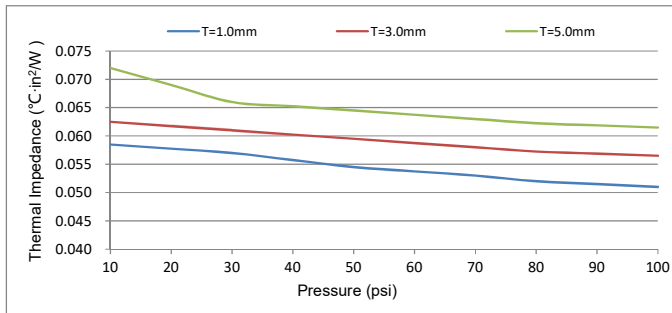
Applications

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

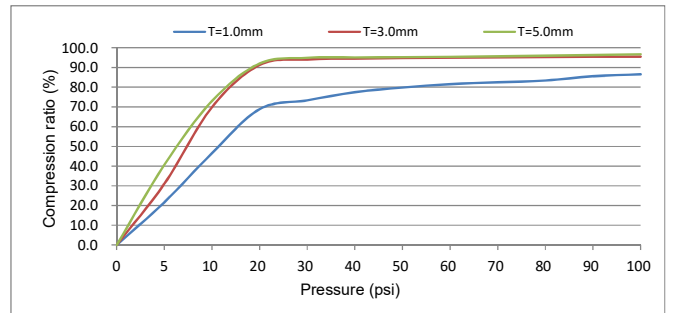
Typical Properties of TIF[®]700PES Series

Property	Value		Test method
Color	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)	55	10	ASTM D2240
Density (g/cm ³)	3.4		ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200		-
Breakdown Voltage (V/mm)	≥5500		ASTM D149
Dielectric Constant @1MHz	7.6		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

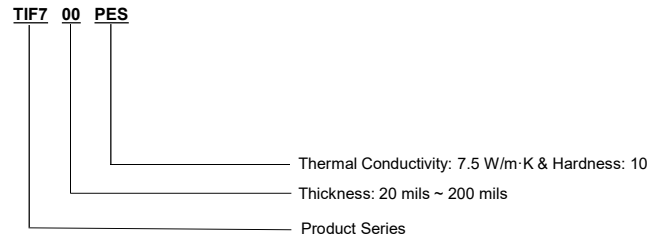


Product Specifications

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)

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

Product Identifier



Global solutions: Local support

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TIF700PES-1225