

TIF®500-50-11ES is a thermal pad specifically designed to address the most demanding thermal challenges and highly sensitive mechanical stress environments. Combining exceptional thermal conductivity with near-fluid softness, it ensures perfect filling of contact interfaces even under ultra-low installation pressure, completely eliminating air thermal resistance. This delivers an outstanding thermal management solution and physical protection for the most precise and high-heat-flux-density electronic components.

Features

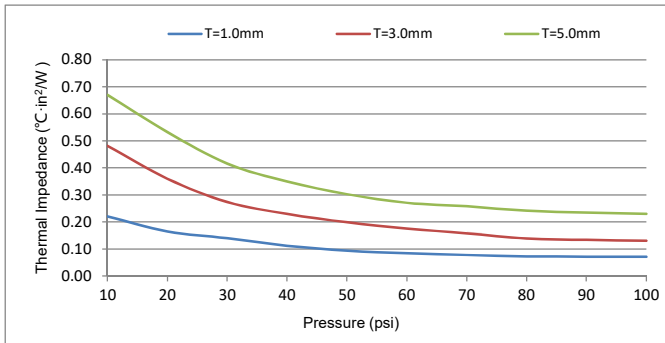
- » High thermal conductivity
- » Extremely soft, low compression stress effectively protects sensitive components
- » Self adhesive without the need for additional surface adhesive
- » Good insulation performance

Applications

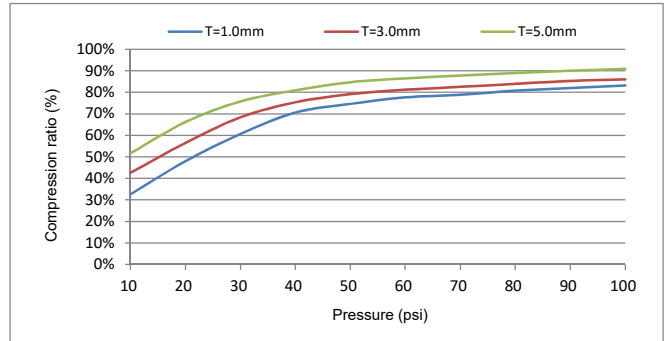
- » Power tools
- » Network communication products
- » Electric vehicle batteries
- » Computer CPU/GPU Cooling
- » New energy vehicle power systems

Typical Properties of TIF®500-50-11ES Series			
Property	Value		Test method
Color	Gray		Visual
Construction	Ceramic filled silicone elastomer		-
Thickness Range (inch/mm)	0.02~0.03 0.50~0.75	0.04~0.20 1.00~5.00	ASTM D374
Hardness (Shore OO)	10	10	ASTM D2240
Density (g/cm ³)	3.3		ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200		-
Breakdown Voltage (V/mm)	≥ 5000		ASTM D149
Dielectric Constant @1MHz	3.8		ASTM D150
Volume Resistivity (Ohm·cm)	> 1.0×10 ¹²		ASTM D257
Thermal Conductivity (W/m·K)	5.0		ASTM D5470
	5.0		ISO22007
Flame Rating	V-0		UL94 (E331100)

Thermal Impedance



Compression Ratio



Product Specifications

Standard Thickness: 0.02"(0.50 mm)~0.20" (5.00 mm) with increments of 0.01 inch (0.25 mm).

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

Component Codes:

Reinforcement Fabric: FG (Fiberglass).

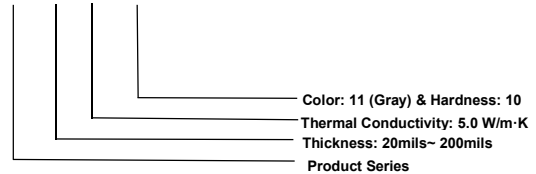
Coating Options: NS1 (Non-adhesive treatment), DC1 (Single-sided hardening).

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

TIF5 00 - 50 - 11ES



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