



TIF[®]200-30-12S Series is a compound thermal interface material that combines good thermal conductivity, reliable electrical insulation, and soft characteristics. This product not only provides excellent thermal conductivity but also ensures superior breakdown voltage strength, effectively preventing circuit short circuits. Its soft characteristic allows it to fully fill uneven interfaces, providing excellent cushioning protection for precision components while dissipating heat. This series is an ideal choice for applications requiring electrical isolation, such as power devices, new energy vehicles, and portable electronic devices.

Features

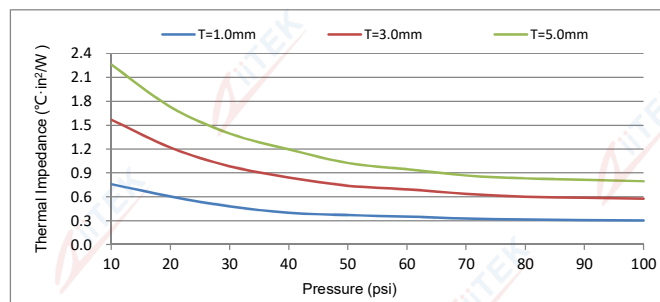
- » Good thermal conductivity
- » Good softness and fillability
- » Self-adhesive without the need for additional surface adhesives
- » Good insulation performance
- » Puncture-resistant, tear-resistant, and scratch-resistant performance

Applications

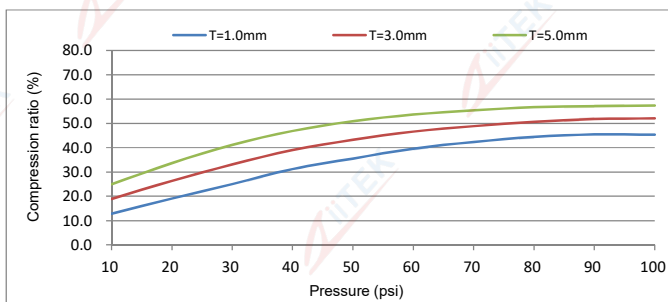
- » Power Electronics
- » Automotive Electronics
- » Consumer Electronics
- » Industrial Control
- » New Energy

Typical Properties of TIF® 200-30-12S Series			
Property	Value		Test Method
Color(Silicone Cloth/Silicone)	Yellow/Blue		Visual
Construction	Ceramic filled silicone elastomer		-
Thickness Range (inch/mm)	0.010 0.25	0.020~0.200 0.50~5.00	ASTM D374
Hardness (Shore OO)	70	45	ASTM D2240
Density (g/cm³)	3.0		ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200		-
Breakdown Strength (V/mm)	≥5500		ASTM D149
Dielectric Constant @1MHz	4.5		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:

Coating Options: NS1 (Non-adhesive treatment),

DC1 (Single-sided hardening).

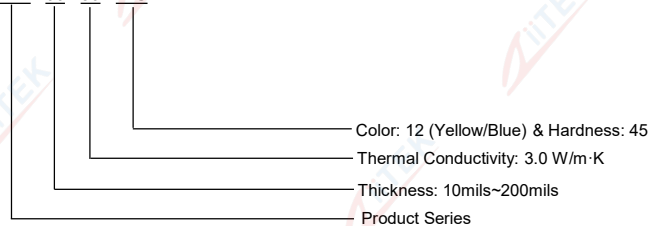
Adhesive Options: A1/A2 (Single-sided/Double-sided adhesive).

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

For other thicknesses or more information, please contact us.

Product Identifier

TIF2 00 - 30 - 12S



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