



TIF[®]100-80-11F Series is a high-end compressible thermal pad designed to meet top-level cooling requirements while maintaining excellent assembly workmanship. Through an innovative material formulation, it successfully achieves an ideal combination of ultra-high thermal conductivity and moderate hardness. This unique performance balance allows it to efficiently handle the cooling challenges posed by ultra-high heat flux densities, while also providing good mechanical strength and compressibility, making it easy to process and install. It offers a reliable interface material solution with both outstanding thermal performance and high reliability for high-power-density electronic devices.

Features

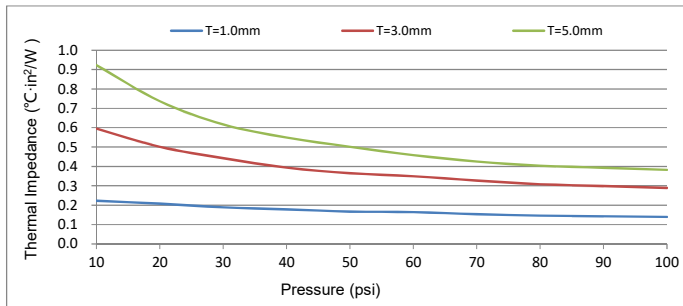
- » Excellent thermal conductivity
- » Good flexibility and fillability
- » Self-adhesive without the need for additional surface adhesives
- » Good insulation performance

Applications

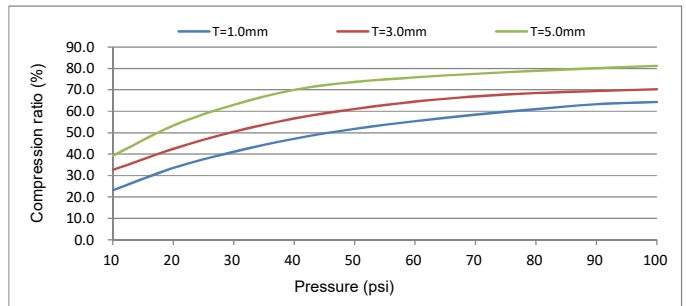
- » AI Servers
- » Semiconductor Packaging
- » Low-Altitude Aircraft
- » Optical Communication Products
- » 5G Base Stations

Typical Properties of TIF [®] 100-80-11F 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)	60	60	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	4.5		ASTM D150
Volume Resistivity (Ohm·cm)	> 1.0×10 ¹²		ASTM D257
Thermal Conductivity (W/m·K)	8.0		ASTM D5470
	8.0		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).

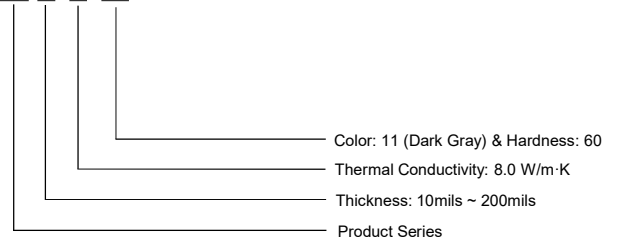
Adhesive Options: A1/A2 (Single-sided/Double-sided adhesive).

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

For other thicknesses or more information, please contact us.

Product Identifier

TIF1 00 - 80 - 11F



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TIF100-80-11F-0226