



**TIF<sup>®</sup>100-85-11US Series** is a thermal pad designed specifically for environments sensitive to extreme mechanical stress. It combines excellent thermal conductivity with an almost fluid-like extreme softness, ensuring perfect contact interface filling even under ultra-low mounting pressure, completely eliminating air thermal resistance, and providing superior heat dissipation solutions and physical protection for the most delicate electronic components.

## Features

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

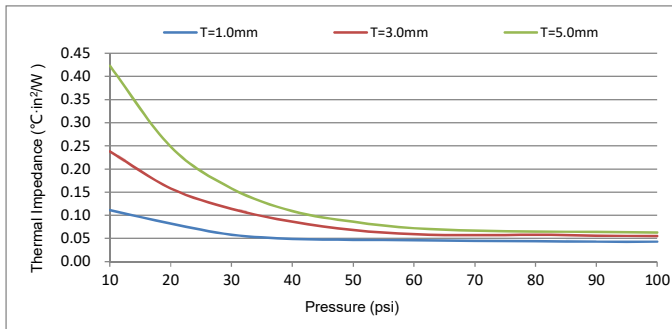
## Applications

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

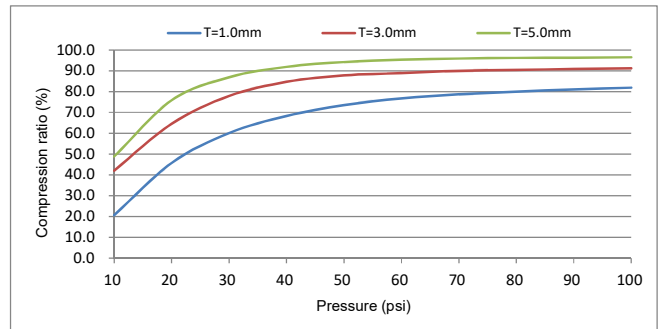
**Typical Properties of TIF<sup>®</sup>100-85-11US Series**

Property	Value		Test Method
Color	Dark Gray		Visual
Construction	Ceramic filled silicone elastomer		-
Thickness Range (inch/mm)	0.012~0.020 0.30~0.50	0.030~0.200 0.75~5.00	ASTM D374
Hardness (Shore OO)	35	20	ASTM D2240
Density (g/cm <sup>3</sup> )	3.5		ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200		-
Breakdown Voltage (V/mm)	≥5500		ASTM D149
Dielectric Constant @1MHz	6.0		ASTM D150
Volume Resistivity (Ohm·cm)	> 1.0×10 <sup>12</sup>		ASTM D257
Thermal Conductivity (W/m·K)	8.5		ASTM D5470
	8.5		ISO22007
Flame Rating	V-0		UL94 (E331100)

**Thermal Impedance**



**Compression Ratio**



## Product Specifications

**Standard Thickness:** 0.012" (0.30 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).

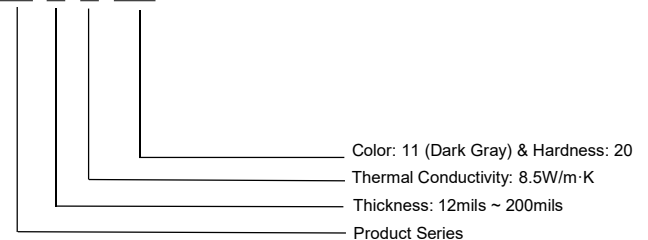
Adhesive Options: A1/A2 (Single-sided/Double-sided adhesive).

The TIF<sup>®</sup> series is available in custom shapes and various forms.

For other thicknesses or more information, please contact us.

## Product Identifier

**TIF1 00 - 85 - 11US**



## Global solutions: Local support

China: +86-769-38801208  
Taiwan: +886-2-2277-1007  
Canada: +001-604-2998559  
Vietnam: +84-396852859

service@ziitek.com

www.ziitek.com

Ziitek Technology Ltd and its distributors provide information deemed accurate and reliable. However, product specifications may be adjusted due to technical modifications or optimizations without prior notice. The responsibility for product use and application lies with the end user. Ziitek makes no guarantees regarding the product's suitability, merchantability, or fitness for a particular purpose and assumes no liability for incidental or consequential damages. Ziitek and its logo are the property of the company or its affiliates.



TIF100-85-11US-1125