



TIF[®]100L 2050-06 Series is a thermal pad with ultra-low silicon oxygen volatilization, designed specifically for optical and high-precision applications. Its soft and elastic material can fill the uneven gaps between heating elements and heat sinks or metal bases, improve thermal conductivity efficiency, and effectively extend the life of electronic components. The silicone structure filled with ceramics not only has good thermal conductivity, but also has extremely low volatility of low molecular weight siloxanes, which can significantly reduce the risk of internal contamination in optical devices.

Features

- » Ultra low volatility of siloxane
- » Good thermal conductivity
- » Self adhesive without the need for external surface adhesive
- » Highly compressible, easy to install and operate
- » Good insulation performance

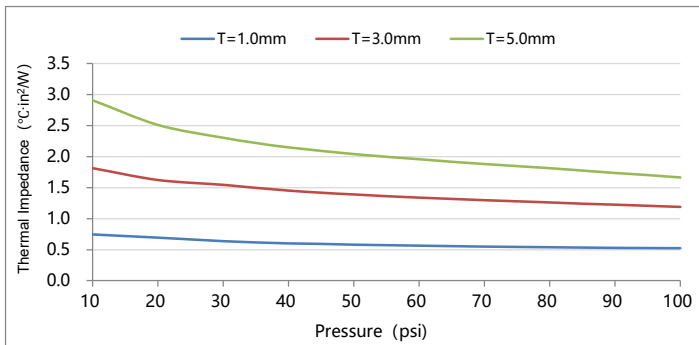
Applications

- » Embedded Motherboard
- » Industrial visual inspection equipment
- » Graphics card cooling module
- » Charging pile power module
- » Central control screen

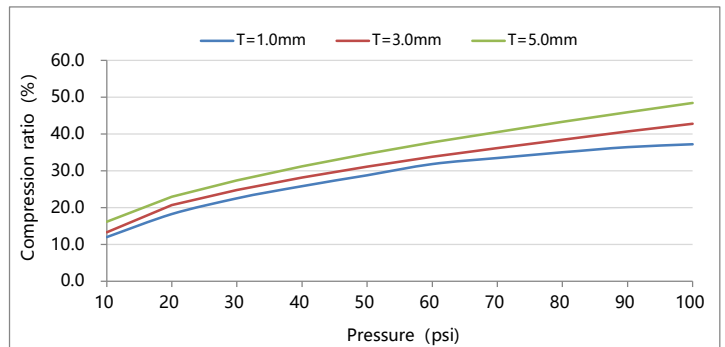
Typical Properties of TIF[®]100L 2050-06 Series

Property	Value		Test Method
Color	White		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)	65	50	ASTM D2240
Density (g/cm ³)	2.9		ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200		-
Breakdown Voltage (V/mm)	≥5500		ASTM D149
Dielectric Constant @1MHz	7.0		ASTM D150
Volume Resistivity (Ohm·cm)	> 1.0×10 ¹²		ASTM D257
Thermal Conductivity (W/m·K)	2.0		ASTM D5470
	2.0		ISO22007
ΣD3-D10 (PPM)	< 100		GC-MS
Flame Rating	V-0		UL94 (E331100)

Thermal Impedance



Compression Ratio



Product Specifications

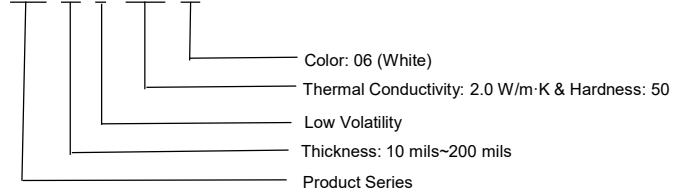
Standard Thickness: 0.010" (0.25 mm) ~ 0.200" (5.00 mm) , with increments of 0.010" (0.25 mm).

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

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

Product Identifier

TIF1 00 L 2050 - 06



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