



TIF[®] 100L 3040-06 Series is an ultra-low silicon oxygen volatilization thermal pad designed specifically for the thermal management needs of optical and high-precision electronic devices. Balances efficient thermal conductivity and extremely low precipitation of condensable volatile substances, effectively avoiding pollution to sensitive optical components and precision circuits. And the material has excellent flexibility and elasticity, which can fully fill the micro gaps between the heating interface and the heat dissipation structure, significantly reduce the contact thermal resistance, improve the thermal conductivity efficiency, and ensure the reliability and service life of electronic components in long-term operation.

Features

- » Ultra low volatility of siloxane
- » Good thermal conductivity
- » Excellent weather resistance and aging resistance
- » Highly compressible, easy to install and operate
- » Good insulation performance

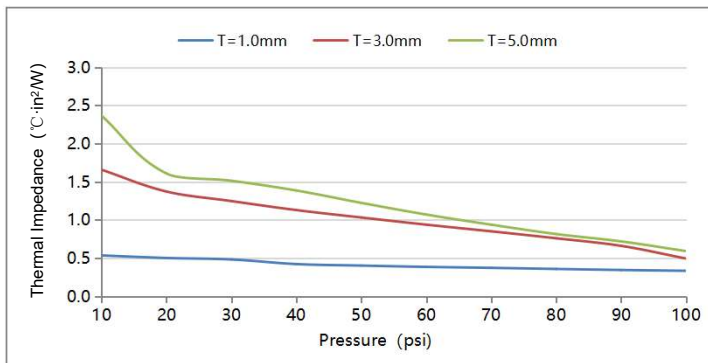
Applications

- » Motor Controller (MCU)
- » Airborne computer
- » Machine vision camera
- » High performance ASIC chip
- » Central control screen

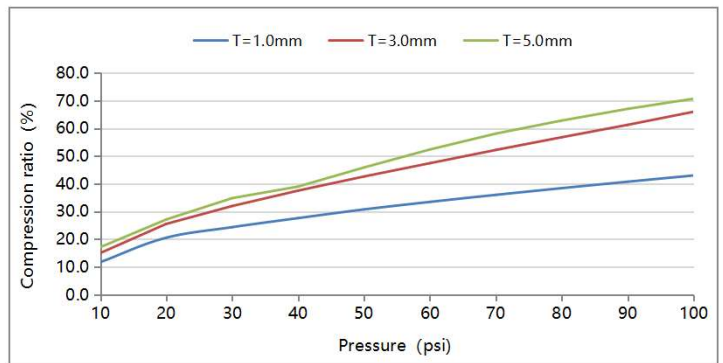
Typical Properties of TIF[®] 100L 3040-06 Series

| 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 | 40 | ASTM D2240 |
| Density (g/cm ³) | 3.0 | | ASTM D792 |
| Recommended Operating Temperature (°C) | -40 ~ 200 | | - |
| Breakdown Voltage (V/mm) | ≥5500 | | ASTM D149 |
| Volume Resistivity (Ohm·cm) | > 1.0×10 ¹² | | ASTM D257 |
| Thermal Conductivity (W/m·K) | 3.0 | | ASTM D5470 |
| | 3.0 | | ISO22007 |
| ΣD3-D10 (PPM) | < 100 | | GC-MS |
| Flame Rating | V-0 | | UL94 (E331100) |

Thermal Impedance



Compression Ratio



Product Specifications

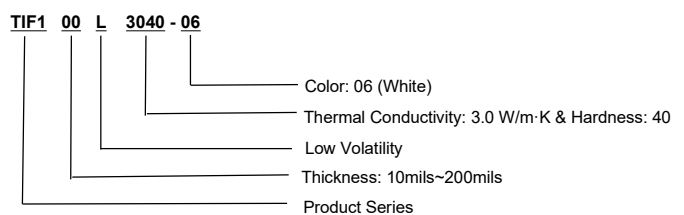
Standard Thickness: 0.010" (0.25 mm) ~ 0.200" (5.00 mm), with increments of 0.010" (0.25 mm).

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



Global solutions: Local support

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