



TIF[®] 500-65-11US Series is an ultra-soft thermal interface material designed specifically to protect precision components that are extremely sensitive to mechanical stress. This product combines high thermal conductivity with exceptional gel-level softness, achieving a perfectly low-stress fit. It is suitable for addressing issues such as large tolerances, uneven surfaces, and the susceptibility of precision components to mechanical damage in high-precision assemblies.

Features

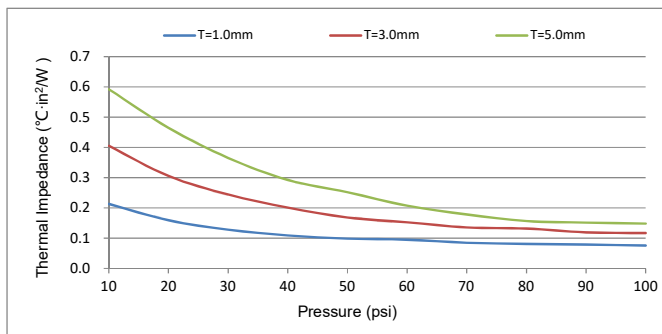
- » High thermal conductivity
- » Super soft and highly compliant
- » Self-adhesive without the need for additional surface adhesives
- » Good insulation performance

Applications

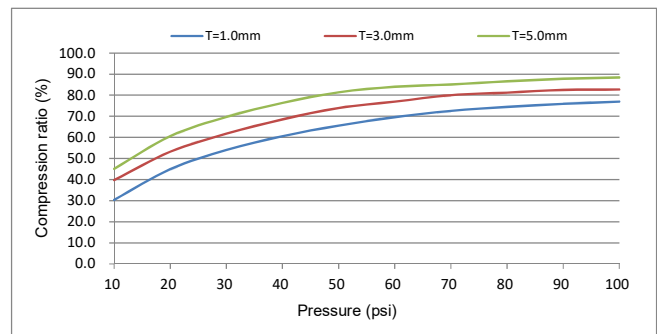
- » Power tools
- » Network communication products
- » Electric vehicle batteries
- » Computer CPU/GPU Cooling
- » New energy vehicle power systems

| Typical Properties of TIF [®] 500-65-11US 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) | 65 | 20 | 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 | 7.0 | | ASTM D150 |
| Volume Resistivity (Ohm·cm) | > 1.0×10 ¹² | | ASTM D257 |
| Thermal Conductivity (W/m·K) | 6.5 | | ASTM D5470 |
| | 6.5 | | 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:

Reinforcement Fabric: FG (Fiberglass).

Coating Options: NS1 (Non-adhesive treatment),

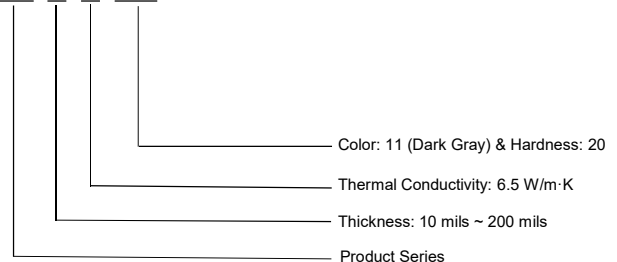
DC1 (Single-sided hardening).

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

TIF5 00 - 65 - 11US



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