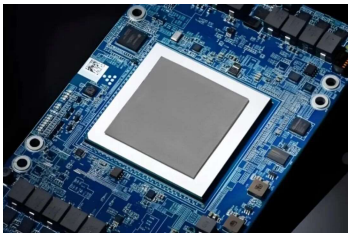
# TIF®800TS Series
# Thermally Conductive Gap Filler Pads



**TIF®800TS Series** is a high-end compressible thermal pad that meets top-level cooling requirements while also ensuring excellent assembly workability. 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 extremely high heat fluxes, while also possessing good mechanical strength and compressibility, making it easy to manufacture and install. It provides a thermal interface material solution with both outstanding heat dissipation performance and high reliability for high-power-density electronic devices.

## Features

- Excellent thermal conductivity
- Good softness and filling properties
- Self-adhesive without the need for additional surface adhesive
- Good insulation performance

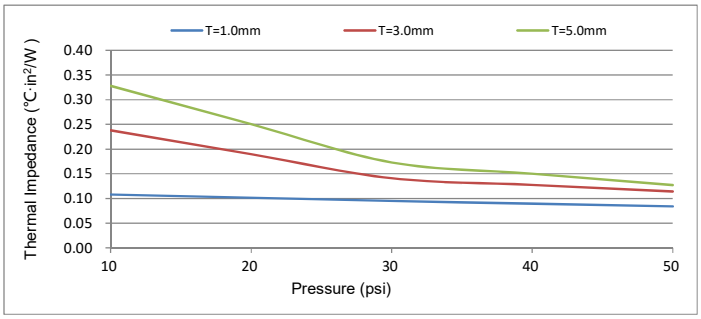
## Applications

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

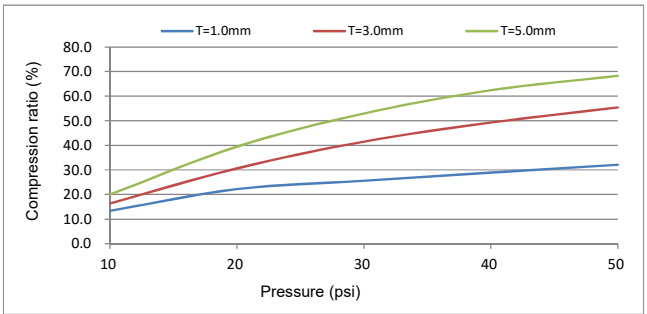
**Typical Properties of TIF®800TS Series**

| Property | Value | | Test Method |
|---|---|---|---|
| Color | Gray | | Visual |
| Construction | Ceramic filled silicone elastomer | | - |
| Thickness Range (inch/mm) | 0.030<br>0.75 | 0.040~0.200<br>1.00~5.00 | ASTM D374 |
| Hardness (Shore OO) | 45 | 45 | ASTM D2240 |
| Density (g/cm$^3$) | 3.3 | | 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) | 16.0 | | ISO22007 |
| Flame Rating | V-0 | | UL94 (E331100) |

### Thermal Impedance




### Compression Ratio




## Product Specifications

**Standard Thickness:** 0.030" (0.75 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

**TIF8 00 TS**

- TS — Thermal Conductivity: 16.0 W/m·K & Hardness: 45
- 00 — Thickness: 30mils ~ 200mils
- TIF8 — Product Series


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