



TIF®800QE Serie 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

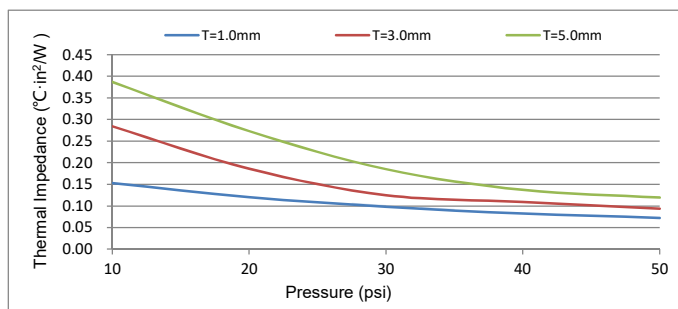
Applications

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

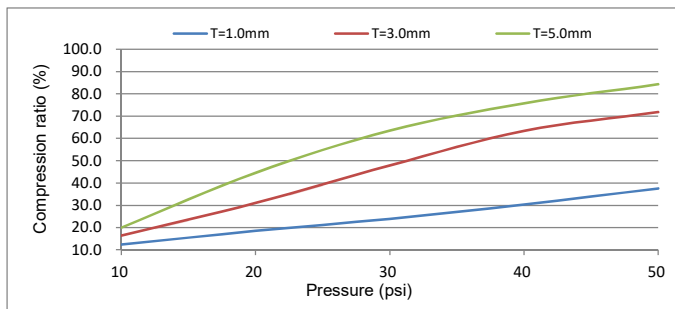
Typical Properties of TIF®800QE Series

Property	Value		Test Method
Color	Gray		Visual
Construction	Ceramic filled silicone elastomer		-
Thickness Range (inch/mm)	0.020~0.030 0.50~0.75	0.040~0.200 1.00~5.00	ASTM D374
Hardness (Shore OO)	55	35	ASTM D2240
Density (g/cm ³)	3.5		ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200		-
Breakdown Voltage (V/mm)	≥5500		ASTM D149
Dielectric Constant @1MHz	8.0		ASTM D150
Volume Resistivity (Ohm·cm)	> 1.0×10 ¹²		ASTM D257
Thermal Conductivity (W/m·K)	13.0		ASTM D5470
	13.0		ISO22007
Flame Rating	V-0		UL94 (E331100)

Thermal Impedance



Compression Ratio



Product Specifications

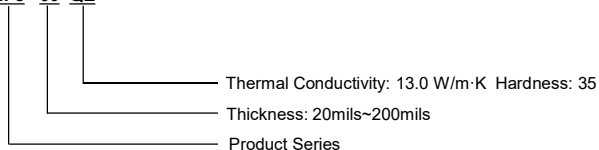
Standard Thickness: 0.020"(0.50 mm)~0.200" (5.00 mm) with increments of 0.010" (0.25 mm).

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 QE



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TIF800QE-1225