

Thermal Conductive Gap Fillers



◆ Features and Benefits

- 1.5W/mK thermal conductivity
- Highly compressible and cost effective
- Naturally tacky
- Electrically Isolating

◆ Typical Applications

- Cooling Components to the Chassis, Frame, or other type of heat spreader
- Mass Storage Drives
- Heat Pipe assemblies
- RDRAM Memory Modules
- Motor Control
- Telecommunication Hardware

TIF100 series is an ultimately very soft, cost effective freestanding gap filler that is more compressible than most other gap fillers, at pressures of 50psi, will deflect to over 50% the original thickness, this high rate of compliance allows the material to "totally blanket" the component, enhancing thermal transfer, The material have a very low compression set enabling the pad to be reused many times.

TIF100 series combines good thermal conductivity of 1.5W/mK with high compressibility to produce low thermal resistance. TIF100 series is electrically non-conductivity, stable from -50°C to 200°C. The material is naturally tacky. Additional adhesive coating is not required.

Typical Properties of TIF100 series

Product Name	TIF100	Test Method
Color	Green	Visual
Construction & Composition	Ceramic filled silicone elastomer	***
Thickness (inch/mm)	0.010 to 0.400 (inch) 0.254 to 10.160 (mm)	ASTM D751
Specific Gravity, (g/cc)	1.75	ASTM D297
Heat Capacity, (I/g-K)	1.0	ASTM C351
Hardness, (Shore A)	10	ASTM 2240
Tensile Strength, (psi)	40	ASTM D412
Continuous Use Temp, (°F / °C)	(-58 to 392°F) (-50 to 200°C)	***
Electrical		
Dielectric Breakdown Voltage, (VAC)	>5500	ASTM D149
Dielectric Constant, (1000 Hz)	5.5	ASTM D150
Volume Resistivity (Ohm-meter)	4.0X10 ¹⁰	ASTM D257
Flame Rating	94 V0	equivalent UL
Thermal		
Thermal Conductivity, (W/m-K)	1.5	ASTM D5470
Reinforcement	Reinforcement if optional in all thickness, Indicate fiberglass by "FG" suffix.	

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