

## Thermal Conductive Gap Fillers



### ◆ Features and Benefits

- 1.25W/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 soft 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 conformable nature of TIF100 soft series allows the pad to fill in air gaps between PC boards and heat sinks or a metal chassis. The material has a very low compression set enabling the pad to be reused many times.

**TIF100 soft series** combines good thermal conductivity of 1.25W/mK with high compressibility to produce low thermal resistance. TIF100 soft 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 soft series

Product Name	TIF100 soft	Test Method
Color	Violet / 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, (J/g-K)	1.0	ASTM C351
Hardness, (Shore A)	8	ASTM 2240
Tensile Strength, (psi)	75	ASTM D412
Continuous Use Temp, (°F / °C)	(-58 to 392°F) (-50 to 200°C)	***
<b>Electrical</b>		
Dielectric Breakdown Voltage, (VAC)	>5500	ASTM D149
Dielectric Constant, (1000 Hz)	5.5	ASTM D150
Volume Resistivity, (Ohm-meter)	6.0X10 <sup>12</sup>	ASTM D257
Flame Rating	94 V0	equivalent UL
<b>Thermal</b>		
Thermal Conductivity, (W/m-K)	1.25	ASTM D5470

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