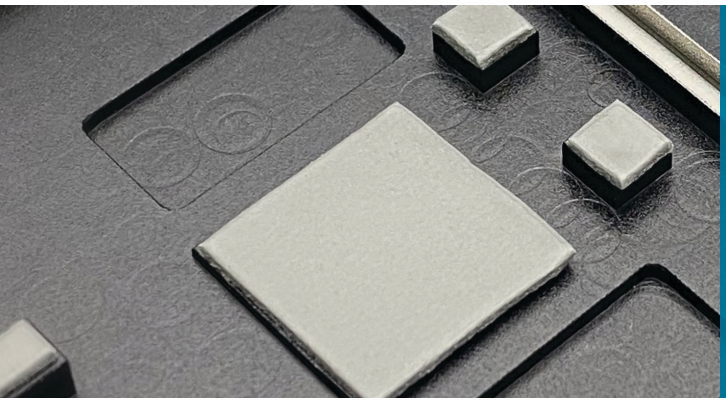
GP1000 SERIES

Thermal Interface Material

Thermally Conductive Pad



MATERIAL

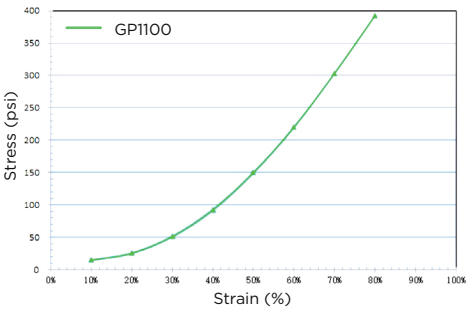
Ceramic particle filled silicone rubber sheet

FEATURES

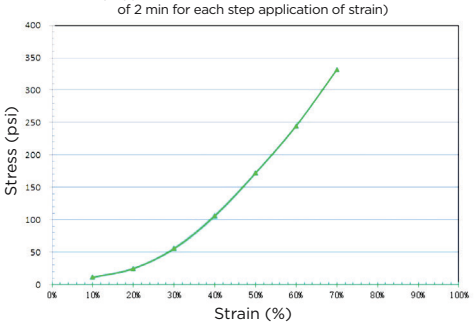
- Thermally conductive 1.0 W/m-K material
- Highly compressible and compliant
- Sheet stock or cut to specification

PROPERTIES	TEST METHOD	GP-1000 SERIES
Softness	ASTM D2240	46 Shore OO
Thermal Impedance @ 1.0mm @ 50 psi	ASTM D5470 Modified	1.276 °C-in²/W
Thermal Conductivity		1.0 W/m-K
Thickness	ASTM D374	0.13 mm to 10 mm
Naturally Tacky		Standard on both sides
Volume Resistivity	ASTM D257	$3x10^{14}$ Ohm-cm
Dielectric Strength	ASTM D149	20 kV_{AC}/mm
Operating Temperature	TGA+DMA	-55 to 200 °C
Flammability Rating	UL 94	V-0 (UL File E333972)
Density	ASTM D792	2.00 g/cm³
Composition		Filled silicone elastomer sheet
Color		Light Gray
Material Option(s)	**A0** - Hardened skin on one side reducing natural tacky properties	**SPA0** - Spraying Boron Nitride powder to remove the natural tackiness; **G** - Hardened skin with fiberglass-woven reinforcement on one side

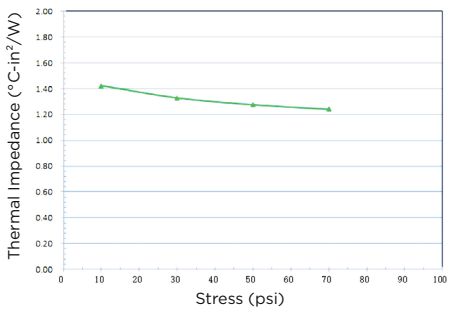
Stress Vs. Strain of GP1100 (1.0mm thick) with Constant Rate of Strain
(@ Temp=25-29°C: Constant Rate of Strain = 0.01 inch/min)



Stress Vs. Strain of GP1100 (1.0mm thick) with Step Application of Strain
(@ Temp=25-29°C: Rate of Strain = 0.01 inch/min between each step application of strain; stress measurement time interval of 2 min for each step application of strain)



Thermal Impedance Vs. Stress of GP1100 (1.0mm thick)
(at Temp-60°C: Step application of pressure 10, 30, 50, 70 psi; ASTM D5470 modified)



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