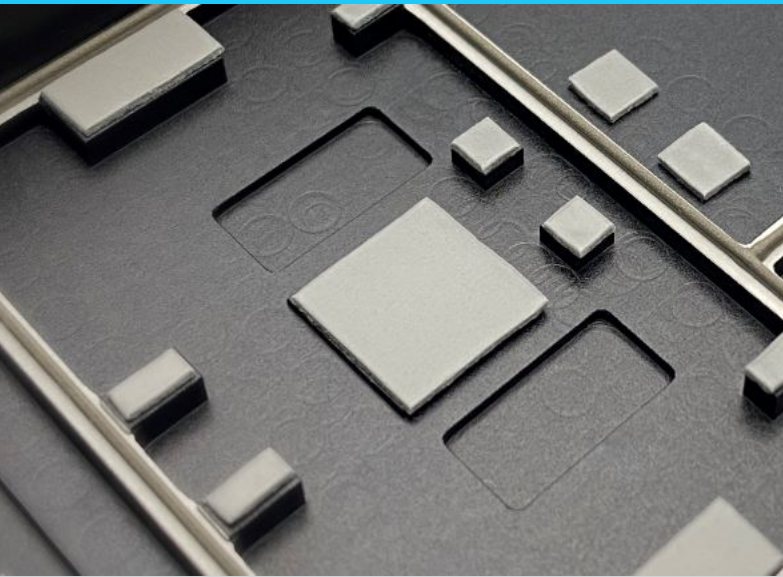


Thermal Conductive Gap Filler Pad

GP1000 Series



Description

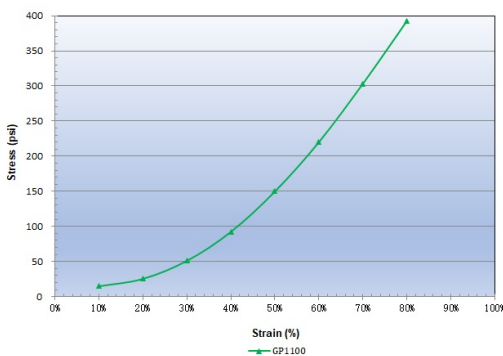
The GP1000 series is a ceramic particle filled silicone rubber sheet with 1.0 W/m-K thermal conductivity. This product provides a good balance between thermal conductive performance and competitive cost. It is used between heat sink and heat generating components. The soft pad will fill voids and rugged surfaces, while wetting out matting surfaces in order to efficiently transfer heat from components to heat sink.

Benefits

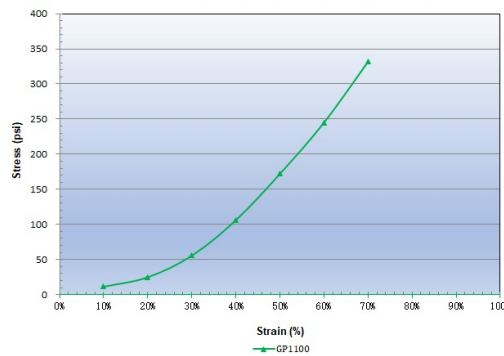
- Thermal conductivity 1.0 W/m-K, competitive cost
- Provides good wetting
- Self-tacky or additional PSA available

Typical Properties of GP1000 Series	Typical Value	Test Method
Construction	Filled silicone elastomer sheet	--
Color	Light Gray	Visual
Inherent Surface Tacky	2 sides	--
Reinforcement Carrier (Optional)	G (0.25mm thick hardened skin with fiberglass woven reinforcement on one side)	--
Surface Treatment (Optional)	A0 (0.25mm thick hardened skin on one side having reduced natural tacky property) SPA0 (Spraying Boron Nitride Powders to remove natural tacky property on one side)	--
Thickness Range	0.13mm to 10mm	ASTM D374
Density	2.00 g/cm ³	ASTM D792
Hardness	46 Shore OO	ASTM D2240
Operating Temperature Range	-55 to 200 °C	TGA+DMA
Flammability Rating	V-0 (UL File E333972)	UL 94
Dielectric Strength	20 KV _{AC} /mm	ASTM D149
Volume Resistivity	3X10 ¹⁴ ohm-cm	ASTM D257
Dielectric Constant @ 1MHz	5.5	ASTM D150
Thermal Conductivity (W/m-K)	1.0 W/m-K	
Thermal Impedance (°C-in ² /W) @1.0mm @ 50 psi	1.276 °C-in ² /W	ASTM D5470 modified

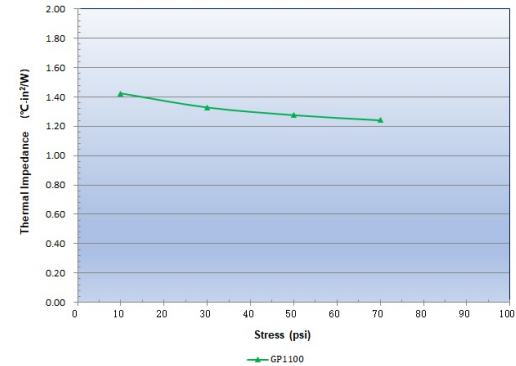
Stress Vs. Strain of GP1100 (1.0mm thick) with Constant Rate of Strain
(@ Temp= 25-29°C; Constant Rate of Strain = 0.01 inch/min.)



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 2min. 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 D 5470 modified)



This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery

REV 1.0