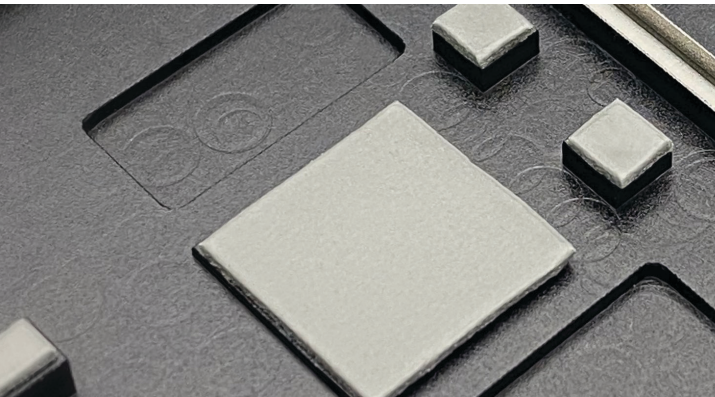


Thermal Interface Material Thermally Conductive Pad



MATERIAL

High-performance particle filled silicone rubber sheet

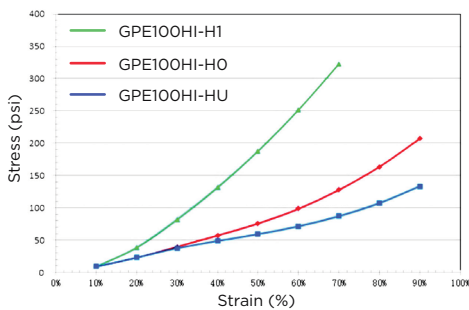


FEATURES

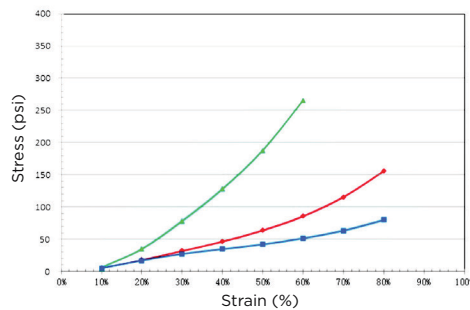
- Thermally conductive 11 W/m-K material
- Available in Standard, Ultrasoft, or Übersoft compression options
- Sheet stock or cut to specification

GPE000HI SERIES PROPERTIES	TEST METHOD	STANDARD (H1)	ULTRASOFT (H0)	ÜBERSOFT (HU)
Softness	ASTM D2240	46 Shore OO	36 Shore OO, starts at 0.50 mm	26 Shore OO, starts at 1 mm
Thermal Impedance @ 1.0mm @ 50 psi	ASTM D5470 Modified	0.209 °C-in ² /W	0.181 °C-in ² /W	0.142 °C-in ² /W
Thermal Conductivity				
Thickness	ASTM D374	0.50 mm to 10 mm		
Naturally Tacky		Standard on both sides		
Volume Resistivity	ASTM D257	>2X10 ¹⁴ Ohm-cm		
Dielectric Strength	ASTM D149	8 kV _{AC} /mm		
Operating Temperature	TGA+DMA	-55 to 200 °C		
Flammability Rating	UL 94	V-0 (UL File E333972)		
Density	ASTM D792	3.30 g/cm ³		
Composition		Filled silicone elastomer sheet		
Color	Visual	Light Gray		
Material Option(s)	AO - Hardened skin on one side reducing natural tacky properties	SPAO - Spraying Boron Nitride powder to remove the natural tackiness	G - Hardened skin with fiberglass-woven reinforcement on one side	

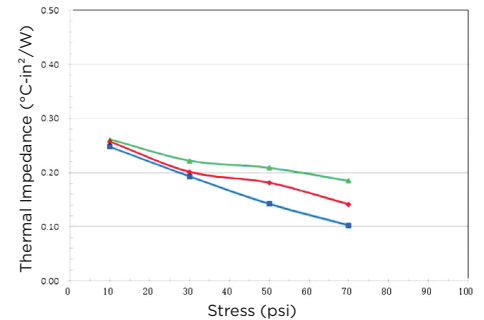
Stress Vs. Strain of GPE100HI-HI/HO/HU (1.0mm thick) with Constant Rate of Strain (@ Temp=25-29°C; Constant Rate of Strain = 0.01 inch/min)



Stress Vs. Strain of GPE100HI-HI/HO/HU (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 GPE100HI-HI/HO/HU (1.0mm thick) (at Temp=60°C; Step application of pressure 10, 30, 50, 70 psi; ASTM D5470 modified)



GET IN TOUCH

EMAIL: SUPPORT@TENNMAX.COM

TEL: +1 360-567-0707



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