MaxTherm Thermal Interface Material

TennVac
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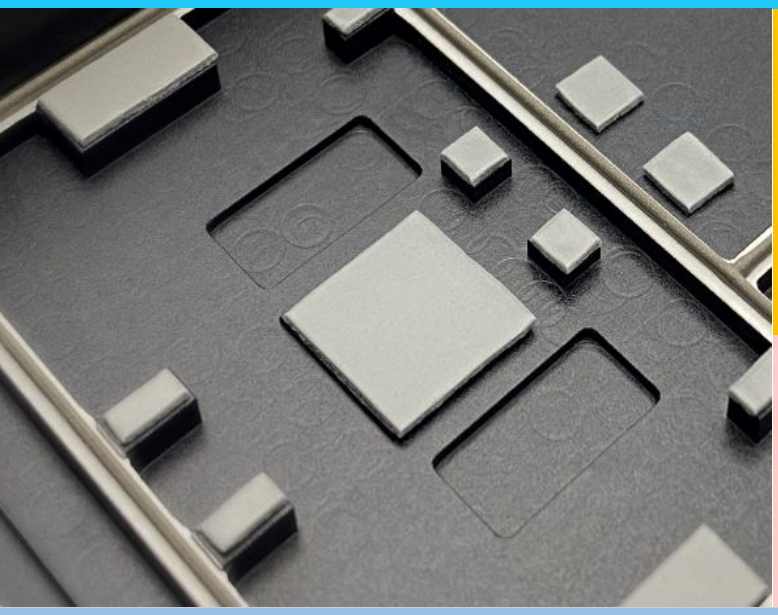
Thermal Conductive Gap Filler Pad GPE000 Series



Description

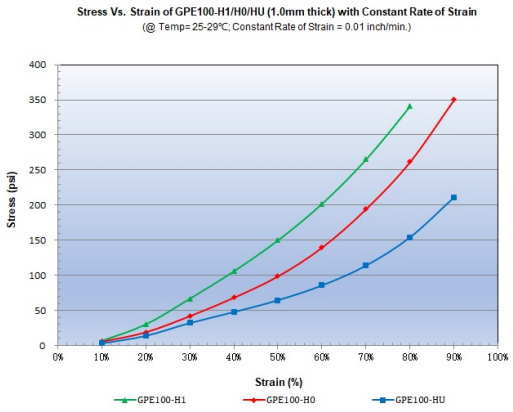
The GPE000 seriese contains silicone rubber with suuperior thermal conductivity 11 W/m-K. It is a specially treated high-performance particle filled silicone rubber, containing an extremely conforming and thermally conductive thermal pad.

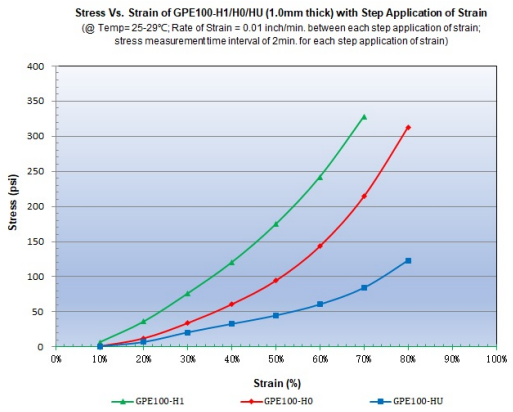
The Ultrasoft and Übersoft versions fill voids and rugged surfaces, while efficiently transferring heat from components to the heat sink.

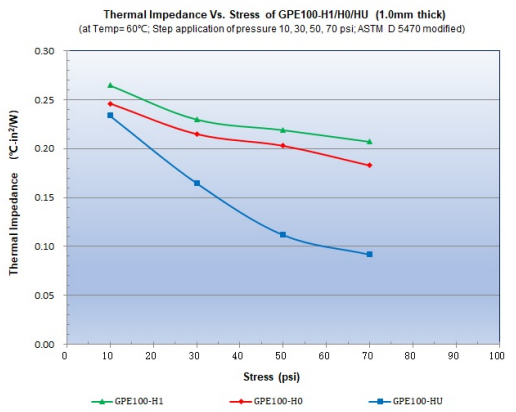
Benefits

- Extreme thermal conductive performance 11 W/m-K
- Hardness options include: Standard, Ultrasoft and Übersoft
- Provides high wettability
- Self-tacky and non-tacky available

Typical Properties of GPE000 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 hasing reduced natural tacky property) SPA0 (Spraying Boron Nitride Powders to remove natural tacky property on one side)	--
Thickness Range	0.25mm to 10mm	ASTM D374
Density	2.45 g/cm^3	ASTM D792
Hardness (Optional)	H1 (Standard): 46 Shore OO	ASTM D2240
	H0 (Ultrasoft): 36 Shore OO, starts from 0.50mm	
	HU (Übersoft): 26 Shore OO, starts from 1.0mm	
Operating Temperature Range	-55 to 200 °C	TGA+DMA
Flammability Rating	V-0 (UL File E333972)	UL 94
Outgassing	TML : 0.13% ; CVCM: 0.03%; WVR: 0.03%	ASTM E595
Dielectric Strength	50 V_{AC}/mm	ASTM D149
Volume Resistivity	>10^4 ohm-cm	ASTM D257
Thermal Conductivity (W/m-K)	11.0 W/m-K	ASTM D5470 modified
Thermal Impedance (°C-in^2/W) @1.0mm @ 50 psi	H1 hardness: 0.219 °C-in^2/W	
	H0 hardness: 0.203 °C-in^2/W	
	HU hardness: 0.112 °C-in^2/W	







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