MaxTherm Thermal Interface Material



GP2000 Series

Thermal Conductive Gap Filler Pad



Description

The GP2000 series is a ceramic particle filled silicone rubber sheet with 1.5 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 Ultra soft version will fill voids and rugged surfaces, while wetting out matting surfaces in order to efficiently transfer heat from components to heat sink.

Benefits

- General Thermal conductivity 1.5 W/m-K at a competitive price
- _ Übersoft and Ultrasoft are highly compressible
- Provides good wetting
- Self-tacky or additional PSA available

Typical Proportion of CP2000 Series	Typical Value	Toot Mothod
Typical Properties of GP2000 Series		restmethod
Construction	Filled silicone elastomer sheet	
Color	Blue	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	0.13mm to 10mm	ASTM D374
Density	2.20 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 0.75mm	
Operating Temperature Range	-55 to 200 °C	TGA+DMA
Flammability Rating	V-0 (UL File E333972)	UL 94
Dielectric Strength	10 KV _{AC} /mm	ASTM D149
Volume Resistivity	>10 ¹³ ohm-cm	ASTM D257
Thermal Conductivity (W/m-K)	1.5 W/m-K	
Thermal Impedance (°C-in²/W) @1.0mm @ 50 psi	H1 hardness: 0.955 °C-in²/W	ASTM D5470 modified
	H0 hardness: 0.872 °C-in ² /W	
	HU hardness: 0.737 °C-in²/W	



Thermal Impedance Vs. Stress of GP2100-H1/H0/HU (1.0mm thick) (at Temp=60°C; Step application of pressure 10, 30, 50, 70 psi; ASTM D 5470 modified)



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TennVac Inc. (Taiwan) +886 2 26951213 sales@tennvac.com

-GP2100-H1

Strain (%)

-GP2100-H0

400

350

300

250

200

150

100

Stress (psi)

TennMax America Inc. +1 (360) 567-0707 sales@tennmaxusa.com TennVac (Shenzhen) +86 755 26951701 sales@tennvac.com

TennMax (Kunshan) +86 512 57603910 sales@tennvac.com

TennMax (Chengdu) +86 28 84281211 sales@tennvac.com