TennVac
EMI / Thermal
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Max-Therm Thermal Interface material -Thermal Pad

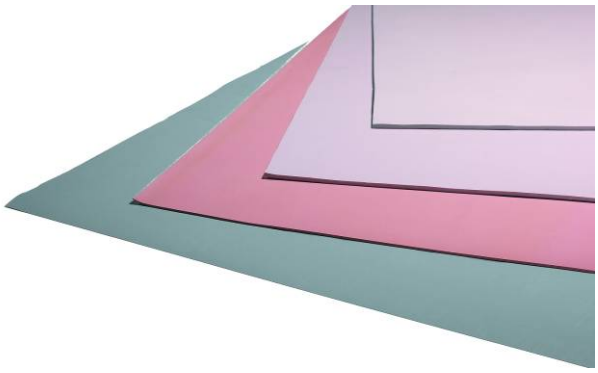
GP8000 series

General Usage:

GP8000 is using the silicone rubber with excellent thermal conductivity, it is a special treated high performance ceramic particles filled silicone rubber, which is a highly conformal and thermally conductive thermal pad. It is used between heat sink and heat generating components. Its ultra soft proper enable filling air voids and rugged surface, and wetting out matting surfaces in order to efficiently transfer heat from components to heat sink.

Benefit:

- Continuous roll package rubber
- Excellent Thermal conductivity
- Ultra soft, highly compressible
- Good wetting
- Self tacky or additional PSA if required



Typical Applications:

- Information products
- BGA, Micro Processors, Graphic Processors.
- Power module

Typical Properties:

GP8000 series	Test method	GP8025	GP8050	GP8100	GP8150	GP8200	GP8250	GP8500
Construction & Composition		Silicone						
Color		Light Grey						
Density (g/cc)		2.55						
Tensile Strength	ASTM D 638	42 psi						
Elongation (%)	ASTM D 412	25						
Outgassing TML *Post Cured (%)	ASTM D 150	0.03						
Outgassing CVCM *Post Cured (%)		0.04						
UL Rating		94V0						
Continuous Use Temp (℃)	TGA+DMA	-40 ~ 200						
Thermal Conductivity (W/mk)	ASTM 5470/E 1530	7.8						
Thermal Expansion (ppm/C)		36						
Thickness (mm)		0.25mm	0.5mm	1.0mm	1.5mm	2.0mm	2.5mm	5.0mm
Thickness Tolerance (mm)		±10%	±10%	±10%	±10%	±10%	±10%	±10%
Hardness (Shore OO)	ASTM D 2240	70	55	55	55	55	55	55
Thermal Impedance @10psi (℃-in²/W)		0.04	0.06	0.11	0.14	0.17	0.21	0.41
@69KPa(℃-cm²/W)		0.26	0.38	0.71	0.90	1.09	1.35	2.63
Volume Resistivity (ohm-cm)	ASTM D 257	$>10^{12}$	$>10^{13}$					

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