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

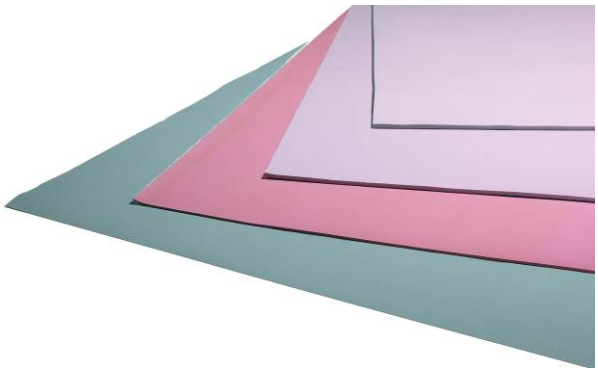
GP7000 series

General Usage:

GP7000 is using the silicone rubber with excellent thermal conductivity, it is a 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
- General Thermal conductivity
- Ultra soft, highly compressible
- Good wetting
- Self tacky or additional PSA if required



Typical Applications:

- Information products
- BGA
- Power module

Typical Properties:

GP7000 series	Test method	GP7013	GP7025	GP7030	GP7050	GP7080
Construction & Composition		Silicone	Silicone	Silicone	Silicone	Silicone
Color		Cyan	Cyan	Cyan	Cyan	Cyan
Thickness (mm)		0.13mm	0.25mm	0.3mm	0.50mm	0.80mm
Thickness Tolerance (mm)		±10%	±10%	±10%	±10%	±10%
Density (g/cc)		2.5	2.5	2.5	2.5	2.5
Standard Hardness (Shore OO)	ASTM D 2240	50	50	50	50	50
Tensile Strength	ASTM D 638	35 psi	35 psi	35 psi	35 psi	35 psi
Elongation (%)	ASTM D 412	48	48	48	48	48
Outgassing TML *Post Cured (%)	ASTM D 150	N/A	N/A	N/A	N/A	N/A
Outgassing CVCM *Post Cured (%)		N/A	N/A	N/A	N/A	N/A
UL Rating		94V0	94V0	94V0	94V0	94V0
Continuous Use Temp (℃)	TGA+DMA	-40 ~ 200	-40 ~ 200	-40 ~ 200	-40 ~ 200	-40 ~ 200
Thermal Conductivity (W/mk)	ASTM 5470/E 1530	5.0	5.0	5.0	5.0	5.0
Thermal Impedance @10psi (℃-in²/W)		0.04	0.16	0.28	0.36	0.40
@69KPa(℃-cm²/W)		0.26	1.03	1.80	2.10	2.65
Thermal Expansion (ppm/C)		23.8	23.8	23.8	23.8	23.8
Dielectric Strength (Volts)		NA	NA	NA	NA	NA
Volume Resistivity (ohm-cm)	ASTM D 257	$>10^{13}$	$>10^{13}$	$>10^{13}$	$>10^{13}$	$>10^{13}$
Dielectric Constant @1MHz	ASTM D 150	NA	NA	NA	NA	NA

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