

# Max-Therm Thermal Interface material -Thermal Pad

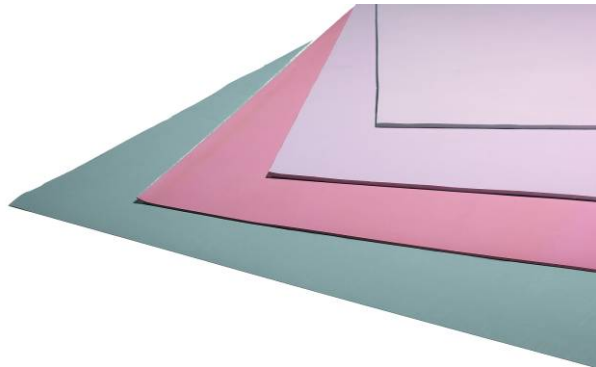
## GP7000 series

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

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