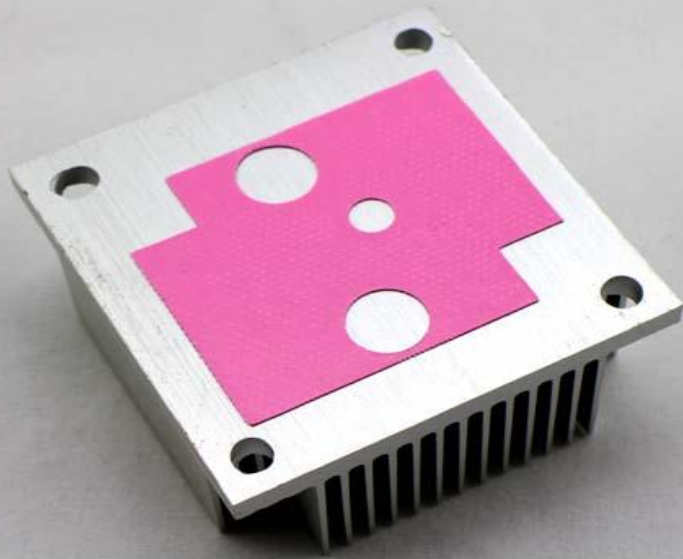


## Thermal Conductive Insulator Pad

## GP-IP1000 Series



### Description

The GP-IP1000 series is a fiberglass-reinforced material, filled with functional ceramic particles silicone rubber, which is a high performance interface pad and providing 3.8W/mk thermal conductivity. It is used when the lowest thermal resistance and highest dielectric strength are required. GP-IP1000 has excellent mechanical characteristics, the fiberglass reinforcement provides high-tear, cut-through and puncture resistance.

### Benefits

- Continuous roll package rubber
- Excellent thermal conductivity
- Excellent dielectric strength, high breakdown voltage
- Resistant to tears and punctures
- Additional PSA available

GP-IP1000 Series	Test Method	GP-IP1025	GP-IP1035	GP-IP1050
Construction & Composition		Silicone	Silicone	Silicone
Color		Magenta	Magenta	Magenta
Thickness		0.25mm	0.35mm	0.50mm
Thickness Tolerance		±10%	±10%	±10%
Density (g/cc)		2.85	2.85	2.85
Hardness (Shore A)	ASTM D2240	85	85	85
UL Rating	UL94	94V-0	94V-0	94V-0
Working Temperature (°C)	TGA+DMA	-40 to 200°C	-40 to 200°C	-40to 200°C
Thermal Conductivity	ASTM D5470/E1530	3.8 W/mk	3.8 W/mk	3.8 W/mk
Thermal Impedance @100psi	ASTM D5470/E1530	0.18 °C-in <sup>2</sup> /W	0.25 °C-in <sup>2</sup> /W	0.35 °C-in <sup>2</sup> /W
@690KPa		1.17 °C-cm <sup>2</sup> /W	1.62 °C-cm <sup>2</sup> /W	2.24 °C-cm <sup>2</sup> /W
Breakdown Voltage (VAC)	ASTM D149	>9000	>14000	>18000
Dielectric Strength (V/mil)	ASTM D149	>900	>900	>900
Volume Resistivity (ohm-cm)	ASTM D257	3.6X10 <sup>14</sup>	3.6X10 <sup>14</sup>	3.6X10 <sup>14</sup>
Dielectric Constant @1MHz	ASTM D150	3.5	3.5	3.5

Standard Thickness: 0.25mm, 0.35mm and 0.50mm  
 Standard Sheet Sizes: 230mmX400mm, Individual die-cut shapes can be supplied.  
 Pressure Sensitive Adhesive: Request PSA on one side with "A1" suffix, request double-sided PSA with "A2" suffix.

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