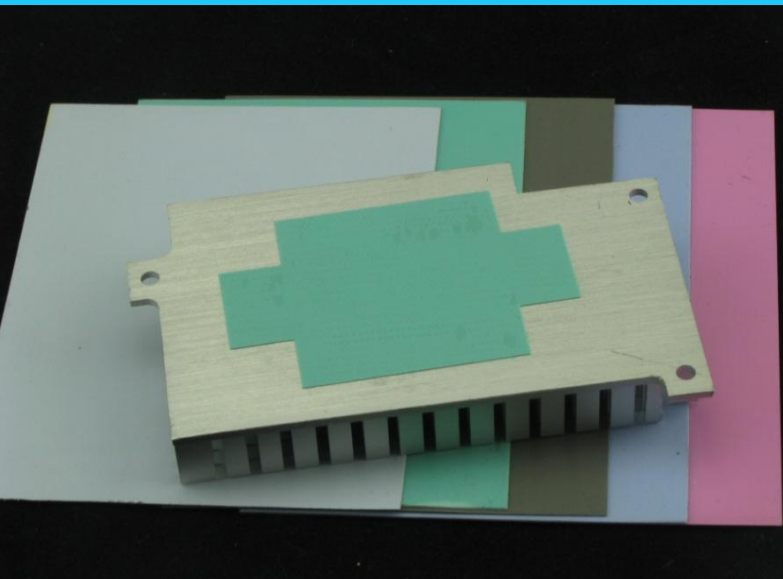


Thermal Conductive Insulator Pad

GP-IP5000 Series



Description

The GP-IP5000 series is a fiberglass-reinforced material, filled with functional ceramic particles silicone rubber, which is a high performance interface pad and providing 5.0 W/m-K thermal conductivity. It is used when the lowest thermal resistance and highest dielectric strength are required. GP-IP5000 has excellent mechanical characteristics, the fiberglass reinforcement provides high-tear, cut-through and puncture resistance.

Benefits

- Easy for cutting and assembly
- Excellent thermal conductivity 5.0 W/m-K
- Excellent dielectric strength, high breakdown voltage
- Resistant to tears and punctures
- Additional PSA available

GP-IP5000 Series	Test Method	GP-IP5025	GP-IP5035	GP-IP5050
Construction & Composition		Fiberglass Reinforced Silicone Rubber		
Color		Cyan	Cyan	Cyan
Thickness (mm)		0.25mm	0.35mm	0.50mm
Thickness Tolerance		±10%	±10%	±10%
Density (g/cc)		3.05	3.05	3.05
Hardness (Shore A)	ASTM D 2240	70	70	70
Tensile Strength	ASTM D 638	80 psi	80 psi	80 psi
Elongation (%)	ASTM D 412	N/A	N/A	N/A
UL Rating	UL 94	94V-0	94V-0	94V-0
Working Temperature (°C)	TGA+DMA	-55 to 200°C	-55 to 200°C	-55 to 200°C
Thermal Conductivity	ASTM D 5470	5.0 W/m-K	5.0 W/m-K	5.0 W/m-K
Thermal Impedance @ 50 psi (°C -in ² /W)	Modified ASTM D 5470	0.40 °C -in ² /W	0.45 °C -in ² /W	0.48 °C -in ² /W
@345KPa(°C -cm ² /W)		2.59 °C-cm ² /W	2.90 °C-cm ² /W	3.09 °C-cm ² /W
Thermal Expansion (ppm/°C)		36	36	36
Breakdown Voltage (VAC)	ASTM D 149	>6000	>8000	>10500
Volume Resistivity (ohm-cm)	ASTM D 257	>9.5X10 ¹⁴	>9.5X10 ¹⁴	>9.5X10 ¹⁴
Dielectric Constant @ 1MHz	ASTM D 257	3.4	3.4	3.4

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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