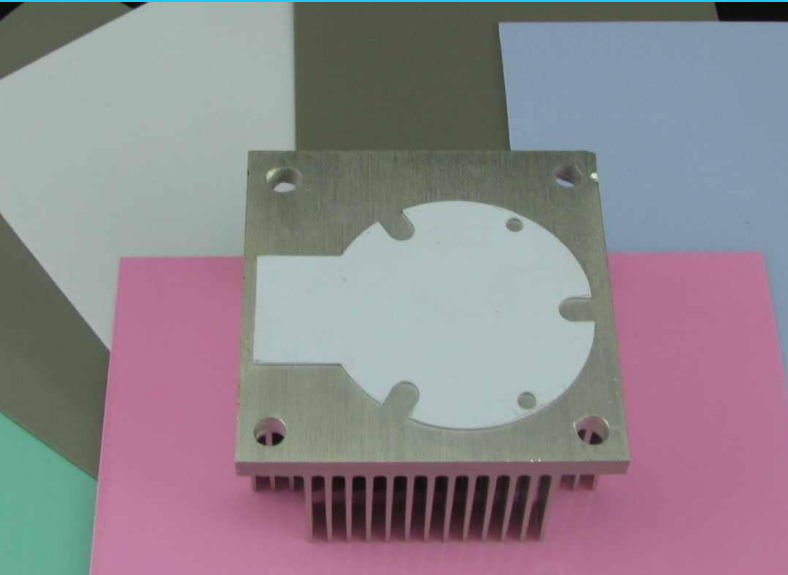


Thermal Conductive Insulator Pad

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 1.0 W/m-K 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

- Easy for cutting and assembly
- Thermal conductivity 1.0 W/m-K
- 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		Fiberglass Reinforced Silicone Rubber		
Color		Blue	Blue	Blue
Thickness (mm)		0.25mm	0.35mm	0.50mm
Thickness Tolerance		±10%	±10%	±10%
Density (g/cc)		2.2	2.2	2.2
Hardness (Shore A)	ASTM D 2240	70	70	70
Tensile Strength	ASTM D 638	110 psi	110 psi	110 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	1.0 W/m-K	1.0 W/m-K	1.0 W/m-K
Thermal Impedance @ 50 psi (°C -in ² /W)	Modified ASTM D 5470	0.64 °C -in ² /W	0.79 °C -in ² /W	0.90 °C -in ² /W
@345KPa(°C -cm ² /W)		4.12 °C-cm ² /W	5.10 °C-cm ² /W	5.78 °C-cm ² /W
Thermal Expansion (ppm/°C)		150	150	150
Breakdown Voltage (VAC)	ASTM D 149	>9000	>14000	>18000
Volume Resistivity (ohm-cm)	ASTM D 257	>8X10 ¹⁴	>8X10 ¹⁴	>8X10 ¹⁴
Dielectric Constant @ 1MHz	ASTM D 257	3.2	3.2	3.2

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.

This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery.

REV.1.0