



GT50-SF

Soft and Elastic Graphene Enhanced Thermal Interface Material

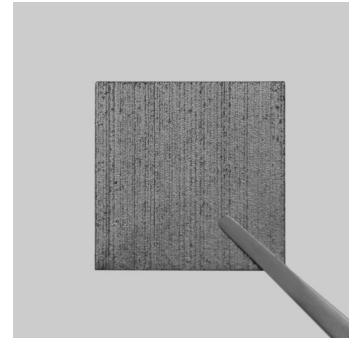
Features:

- Silicone Free
- High Thermal Conductivity
- Low Effective Thermal Resistance
- High Compressibility and Ultra Light

Applications:

Space Electronics, FPGA, IGBT,GPU,CPU,LED,RF Module, 5G devices, Opto and power module cooling

Part Number: GT25SF01C-350350030



Description:

GT-50SF is a silicone free graphene enhanced thermal Interface material. It has very low effective thermal resistance (12 kmm²/W at 275Kpa). Moreover, the GT-50SF has advantages of being silicone free, low density, low complexity during assembly, high recovery and good maintainability. GT-50SF opens new opportunities for addressing large heat dissipation issues in space electronics, opto-electronics and other high power driven systems which requires silicone free user environment.

Physical Properties	Value	Units	Test Method
Bulk Thermal Conductivity	50 ± 5 (275KPa, 300µm)	W / mK	ASTM5470
Effective Thermal Resistance	12 ± 0.5 (275KPa, 300µm)	Kmm ² / W	ASTM5470
Thickness	0.3	mm	Micrometer
Thickness Tolerance	10	%	Micrometer
Pad Size	35 * 35	mm	-
Compressibility	> 50	%	-
Compressive Strength	600 ± 100 (300µm)	kPa	At 50% compression
Recovery	> 70	%	-
Tensile Strength	60 ± 10	kPa	Tensile tester
Surface Roughness (Ra)	5 ± 3	µm	Wyko NT1100 optical profilometer
Surface Roughness (Rz)	30 ± 15	µm	Wyko NT1100 optical profilometer
Application Temperature	-40 to 200	°C	-
Flammability	V - 0		UL94
Specific Heat	0.25 ± 0.05	J / g.K	Hotdisk
Density	0.25 ± 0.05	g / cm ³	Balance and Micrometer
Color	Grey	-	Visual

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