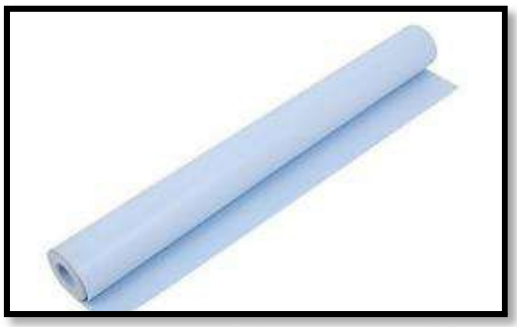
Thermal Conductive Insulator

SP250 REV01



GTP-SP2500 REV01 is a highly conformable / thermally conductive type silicone insulator pad, which is designed for high heat-generating electronic devices with ultra-thin gap to fill and high insulation requirement, especially for high power density power supplies and MOSFETs etc..

With its specially customized formula with pure Boron Nitride fillers and the reinforced carrier of fiberglass, it can be withstanding high pressure and torque force which is appliable for sophisticated automatic screwing assembly and it can be optional by laminating with additional adhesives.

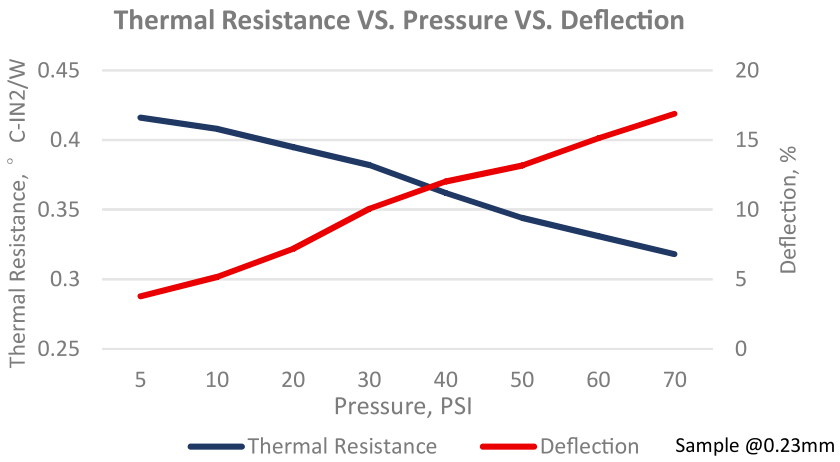
Item		Unit	GTP-SP250 REV01	Standards
PHYSICAL	Color	-	Grey	Visual
	Thickness	mm	0.23	ASTM D374
	Hardness	Shore A	80-85	ASTM D2240
	Density	g/cc	2.3	ASTM D792
	Elongation	%	<10	ASTM D412
	Tensile Strength	MPa	>5	ASTM D412
	Dielectric Strength	KV/mm	>13.5	ASTM D149
	Breakdown voltage	KV/mm	>15	ASTM D149
	Volume Resistivity	Ω-cm	$1.0x10^{15}$	ASTM D257
	TGA Weight Loss	wt%	<0.5	150 Cx24hrs
	Operating Temp.	℃	-60 ~ 180	-
	Flammability	-	VO	UL94
THERMAL	Thermal Conductivity	W/m.K	3.0	ASTM D5470
	Thermal impedance @ 30psi	°C-in2/W	0.382	ASTM D5470
	Thermal impedance @ 70psi	°C-in2/W	0.318	ASTM D5470

Features & Benefits

- Superior thermal conductivity: 3.0W/m.K
- High insulation compatibility
- Endurable for wear and abrasion
- Able to withstand high closure force
- Good reworkability
- Ultra low VOC and outgassing concerns
- Cost-saving solutions

Typical Applications

- ✓ Laser equipment
- ✓ High power density LED module
- ✓ Power supplies, UPS, MOSFETs, IGBT modules
- ✓ Telecommunication equipment
- ✓ Military gadgets, radar, power inverters
- ✓ Signal transmitter, surveillance cameras



Remarks:

1. Shelf-life can be 24 months since date of manufacture
2. Supply form: Sheet, die-cut/kiss-cut parts or pre-laminated with adhesive etc.
3. Standard sheet/roll size: 300mmx50M, 300x400mm