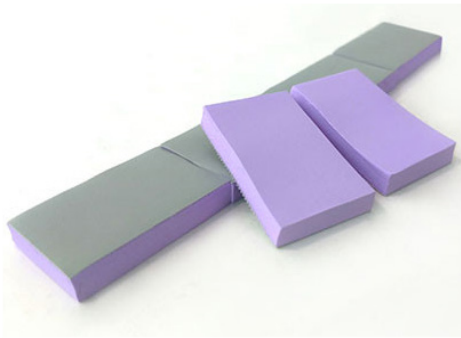




TG-A4500F

Ultra Soft Thermal Pad

Version 2.251119



Ultra Soft Thermal Pad

TG-A4500F is one of our high performance silicone gap pads with a thermal conductivity of 4 W/mK. TG-A4500F contains a fibreglass re-enforced carrier for enhanced tensile strength and ease of manufacture. TG-A4500F is formulated to provide superior surface wetting characteristics and provide low thermal impedance for the most demanding of applications. It is available as standard sheets and custom die-cut parts.

Features

- High thermal conductivity
- Low thermal impedance
- Fibreglass re-enforced
- Non-deforming, high tensile strength
- Electrically insulating

Applications

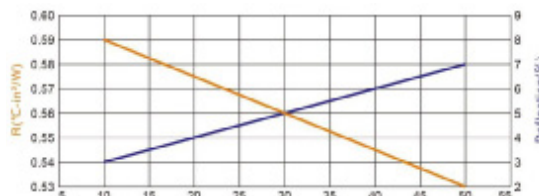
Best for high power applications
 Electronic components: IC, CPU, MOS, LED, Motherboard, Power supply, Heat Sink, LCD TV, Notebook, PC, Telecom Device, Wireless Hub, DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG-A4500F	Unit	Tolerance	Test Method
Colour	Purple	-	-	Visual
Thickness (Available thickness range)	0.5 - 8.0	mm	-	ASTM D374
	0.0197 - 0.315	inch	-	ASTM D374
Thermal Conductivity	4	W/mK	±0.45	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	>6	kV/mm	-	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	3.1	g/cm ³	-	ASTM D792
Working Temperature	-50 to +150	°C	-	-
Volume Resistance	1x10 ¹³	Ohm-m	-	ASTM D257
Elongation	50	%	-	ASTM D412
Standard Shape	Sheets	-	-	-
Hardness	50	Shore 00	±15	ASTM D2240

Thermal Impedance vs Pressure vs Deflection



Pressure (psi)	R (°C-in/W)	Deflection (%)
10	0.59	3
30	0.56	5
50	0.53	7

Testing sample thickness: 1.0mm - In "Thermal resistance vs. Pressure vs Deflection" chart, TG-A4500F provides low thermal impedance. The pressure gets higher, the thermal impedance gets lower, & deflection percentage gets higher. TG-A4500F provides good compliance & softness.

* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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