



TG-A1250

Ultra Soft Thermal Pad

Version 3.251019

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TG-A1250 is one of our high performance silicone gap pads with a thermal conductivity of 12.5 W/mk. TG-A1250 is highly conformable and can be supplied in either standard sheets or custom die-cut parts. TG-A1250 is formulated to wet most surfaces and provide low thermal impedance for the most demanding of applications.

Features

- High thermal conductivity up to 12.5 W/mk
- Highly compressible and compliant
- Low thermal resistance
- Naturally tacky
- Electrically insulating

Applications

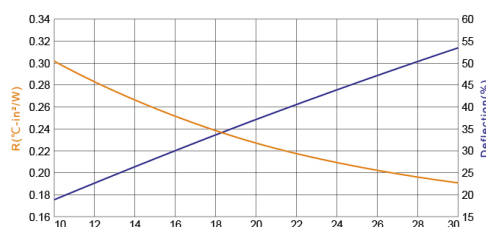
Best for high power applications
 Electronic components: IC, CPU, MOS, LED, Motherboard, Power supply, Heat Sink
 LCD, TV, Notebook PC, PC Telecom Device, Wireless Hub, DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG-A1250	Unit	Tolerance	Test Method
Colour	Green	-	-	Visual
Thickness (Available thickness range)	0.5 - 8.0	mm	-	ASTM D374
	0.0197 - 0.315	inch	-	ASTM D374
Thermal Conductivity	12.5	W/mK	±1.3	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	6.5	kV/mm	±1.2	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	3.3	g/cm ³	±0.2	ASTM D792
Working Temperature	-50 to 150	°C	-	-
Volume Resistance	1x10 ¹³	Ohm-m	-	ASTM D257
Elongation	40	%	-	ASTM D412
Standard Shape	Sheets	-	-	-
Hardness	50	Shore 00	±8	ASTM D2240

Thermal Impedance vs Pressure vs Deflection



Pressure (psi)	R (°C-in/W)	Deflection (%)
10	0.304	19
30	0.194	53

Testing sample thickness: 1.0mm - In "Thermal resistance vs. Pressure vs Deflection" chart, TG-A1250 provides low thermal impedance. The pressure gets higher, the thermal impedance gets lower, and deflection percentage gets higher. TG-A1250 provides good compliance and 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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