



GT Series Thermal Pad

Version 2.040220

Thermal Pad

The GT series is a range of electrically isolating silicone thermal pads with a fibreglass reinforcement carrier. Due to the low material thicknesses, these pads provide reduced thermal impedance whilst maintaining a high breakdown voltage and tensile strength.

Features

- Smooth surface & low contact resistance
- Usable over a wide temperature range
- Electrical insulation; high breakdown voltage

Applications

Electronic components: IC, CPU, MOS, LED, Motherboard, Power Supply, Heat Sink, LCD-TV, Notebook, PC, Telecoms, Wireless Hub, DDR II Module, DVD Applications, Hand-set Applications

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	GT15	GT20	GT30 formerly GT30S	Unit	Tolerance	Test Method
Thermal Conductivity	1.6	2.1	3.2	W/mK	±10%	ASTM D5470
Colour	Yellow	Green	Pink	-	-	Visual
Thickness	0.23	0.3	0.35	mm	-	ASTM D374
Flame Rating	V-0	V-0	V-0	-	-	UL 94
Dielectric Breakdown Voltage (AC)	4.1	4.1	3.1	KV	±10%	ASTM D149
Dielectric Breakdown Voltage (DC)	6.1	6.1	5.1	KV	±10%	-
Weight Loss	< 0.2	< 0.2	< 0.2	%	-	ASTM E595
Density	2.3	2.6	2.8	g/cm ³	±10%	ASTM D792
Working Temperature	-45 to +180	-45 to +180	-45 to +180	°C	-	-
Volume Resistance	>10 ¹²	>10 ¹²	>10 ¹⁰	Ohm-m	-	ASTM D257
Elongation	60	60	30	%	-	ASTM D412
Tensile Strength	200	200	100	Kgf/cm ²	-	ASTM D412
Hardness	75	70	70	Shore A	±3	ASTM D2240

Thermal Impedance vs Pressure vs Deflection

	Pressure (psi)	R (°C-in/W)	Deflection (%)
GT15	10	0.67	< 3
	30	0.49	< 3
	50	0.39	18

	Pressure (psi)	R (°C-in/W)	Deflection (%)
GT20	10	0.49	< 3
	30	0.41	< 3
	50	0.34	22

	Pressure (psi)	R (°C-in/W)	Deflection (%)
GT30	10	0.52	< 3
	30	0.41	< 3
	50	0.37	6

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

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