



TG994

Thermal Conductive Pad

Version 4.130220

Thermal Conductive Pad

TG994 is a silicone based thermal interface material. TG994 has a low thermal impedance, conforms readily to surfaces due to its low hardness and provides a high dielectric breakdown voltage. TG994 can be provided in various thicknesses and formats, such as custom die cuts, standard sheets or log rolls depending on the end application.

Features

- Superior thermal conductivity
- Highly compressible
- Naturally tacky
- Low Shore 00 hardness
- Low oil bleed
- Electrically insulating

Applications

Electronic components: IC, CPU, MOS
 LED, M/B, P/S, Heat Sink
 LCD, TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
 DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG994	Unit	Tolerance	Test Method
Colour	Grey	-	-	Visual
Thickness	0.5 - 5.0	mm	-	ASTM D374
	0.0197 - 0.1968	inch	-	ASTM D374
Thermal Conductivity	13	W/mK	±0.6	ASTM D5470
Dielectric Breakdown Voltage	13	kV/mm	±1.3	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	3.2	g/cm ³	±0.2	ASTM D792
Working Temperature	-45 to 200	°C	-	-
Volume Resistance	>10 ¹²	Ohm-cm	-	ASTM D257
Elongation	50	%	±13	ASTM D412
Tensile Strength	0.5	Kgf/cm ²	±2	ASTM D412
Hardness	80	Shore 00	±15	ASTM D2240
Specific Gravity	3.3	g/cm ³	±0.2	ASTM D792

Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	0.50	0.80	1.00	1.50	2.00
	100x100	16.00	25.60	32.00	48.00	64.00
150x150	36.00	57.60	72.00	108.00	144.00	
300x300	144.00	230.40	288.00	432.00	576.00	
320x320	163.84	262.14	327.68	491.52	655.36	

* All measurements in mm

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

T-Global Technology Limited
 1 & 2 Cosford Business Park, Central Park,
 Lutterworth, Leicestershire LE17 4QU U.K.

Tel: +44 (0)1455 553 510
 Email: sales@tglobaltechnology.com
 Web: www.tglobaltechnology.com
 VAT #: GB 116 662 714

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