



TG-X Ultra Soft Thermal Conductive Pad

Version 3.121119

Ultra Soft Thermal Conductive Pad

TG-X is our high performance silicone gap filler with a thermal conductivity of 12 W/mK. TG-X is highly conformable and can be supplied in either standard sheets or custom die-cut parts. TG-X is formulated to wet most surfaces and provide low thermal impedance for the most demanding of applications.

Features

- High-end product with thermal conductivity of 12 W/mK
- Highly compressible
- Naturally tacky with low Shore 00 hardness
- Low oil bleed and 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	TG-X	Unit	Tolerance	Test Method
Colour	Grey	-	-	Visual
Thickness (Available thickness range)	0.5 - 2.0	mm	-	ASTM D374
	0.0197 - 0.0787	inch	-	ASTM D374
Thermal Conductivity	12	W/mK	±1.2	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	12	kV/mm	±1.2	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	3.4	g/cm ³	±0.2	ASTM D792
Working Temperature	-45 to 200	°C	-	-
Volume Resistance	>10 ¹¹	Ohm-cm	-	ASTM D257
Standard Shape	320-320mm	Sheets	-	-
Hardness	65	Shore 00	±15	ASTM D2240
Shelf Life	36	months	-	-
Shelf Life with adhesive (can be requalified for further 12)	12	months	-	-

Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	0.50	0.80	1.00	1.50	2.00
	100x100	17.00	27.20	34.00	51.00	68.00
150x150	38.25	61.20	76.50	114.75	153.00	
300x300	153.00	244.80	306.00	459.00	612.00	
320x320	174.08	278.53	348.16	522.24	696.32	

* All measurements in weights are in gr

** All sizes are in mm

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

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