



# TG2030

## Ultra-Soft Thermal Conductive Pad

Version 2.130218

### Ultra-Soft Thermal Conductive Pad

TG2030 is an ultra-soft, silicone based thermal interface material. TG2030 has a low thermal impedance, conforms readily to surfaces due to its low hardness and provides a high dielectric breakdown voltage. TG2030 can be provided in various thicknesses and formats, such as custom die cuts, standard sheets or log rolls depending on the end application.

### Features

- Ultra-Soft and high compressibility
- Naturally tacky
- Low oil bleed
- Electrically insulating
- As a buffer in electronics
- Decrease the defect rate of the electronics

### Applications

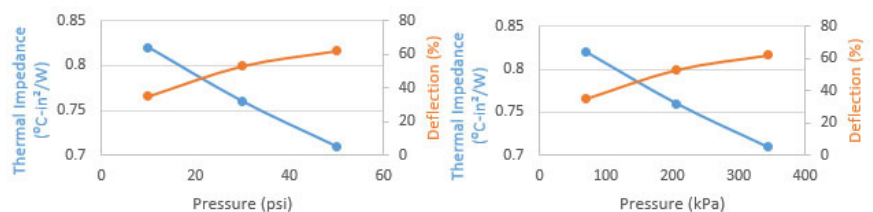
- Electronic components: IC, CPU, MOS
- LED, M/B, P/S, Heat Sink
- LCD, TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
- DDR II Module, DVD Applications, Hand-set applications, etc.

### Properties

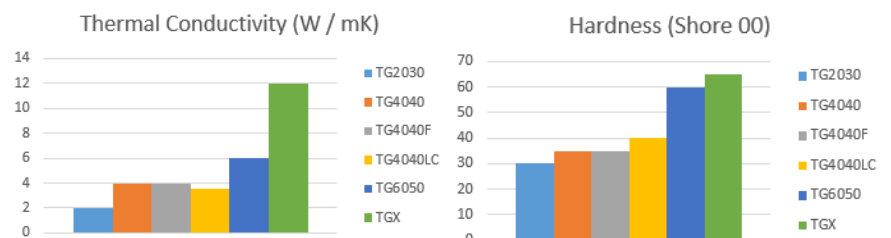
- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG2030	Unit	Tolerance	Test Method
Colour	White	-	-	Visual
Thickness (Available thickness range)	0.5 - 5.0	mm	-	ASTM D374
	0.0197 - 0.1969	inch	-	ASTM D374
Thermal Conductivity	2	W/mK	±0.2	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	16	kV/mm	±1.6	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.4	g/cm <sup>3</sup>	±0.2	ASTM D792
Working Temperature	-45 to 200	°C	-	-
Volume Resistance	>10 <sup>12</sup>	Ohm-cm	-	ASTM D257
Elongation	300	%	-	ASTM D412
Tensile Strength	1	Kgf/cm <sup>2</sup>	-	ASTM D412
Hardness	30	Shore 00	±10	ASTM D2240
Shelf Life	36	months	-	-
Shelf Life with adhesive (can be requalified for further 12)	12	months	-	-

### Thermal Impedance vs Pressure vs Deflection



### Data



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# TG2030 Ultra-Soft Thermal Conductive Pad

## Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
	100x100	12.00	19.20	24.00	36.00	48.00	60.00	72.00	84.00	96.00	108.00	120.00
150x150	27.00	43.20	54.00	81.00	108.00	135.00	162.00	189.00	216.00	243.00	270.00	
300x300	108.00	172.80	216.00	324.00	432.00	540.00	648.00	756.00	864.00	972.00	1,080.00	
320x320	122.88	196.61	245.76	368.64	491.52	614.40	737.28	860.16	983.04	1,105.92	1,228.80	

\* All measurements in mm

Die-Cut Thickness Tolerances	Thickness (mm)	Tolerance (mm)
	0.3	±0.03
	0.5	±0.05
	0.8	±0.08
	1.0	±0.1
	1.2	±0.12
	1.5	±0.15
	2.0	±0.2
	2.5 - 3.5	±0.25
	4.0 - 4.5	±0.3
	5.0	±0.35
	6.0 - 8.0	±0.4
	9.0	±0.45
10.0	±0.5	
>10.0	±0.5	

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

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