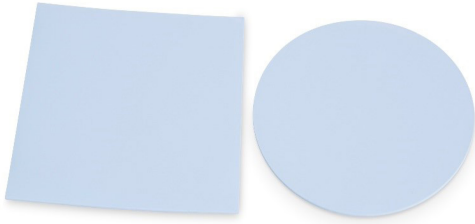


TG4040LC

Ultra-Soft Thermal Conductive Pad

Version 2.130218



Ultra-Soft Thermal Conductive Pad

TG4040LC is an ultra-soft, silicone based thermal interface material which has one face naturally tacky and one face dry. TG4040LC has a low thermal impedance, conforms readily to surfaces due to its low hardness and provides a high dielectric breakdown voltage. TG4040LC can be provided in various thicknesses and formats, such as custom die cuts, standard sheets or log rolls depending on the end application.

Features

- Excellent thermal conductivity
- Great elasticity and elongation
- Natural tack on one side; attached film on the other side
- Great reworkability
- Electrical Insulation
- Low oil bleed

Applications

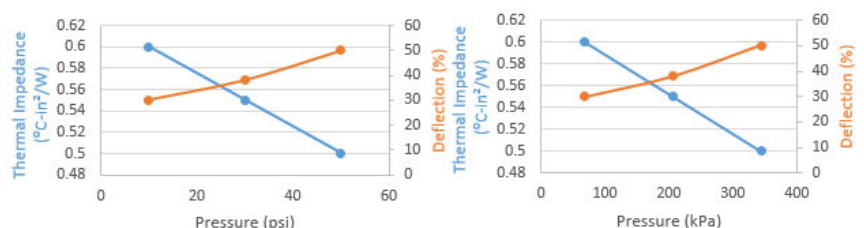
- High Power Applications
- Electronic components: IC, CPU, MOS
- LED, M/B, P/S, Heat Sink
- LCD, TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
- DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG4040LC	Unit	Tolerance	Test Method
Colour	Blue	-	-	Visual
Thickness	0.3 - 5.0	mm	-	ASTM D374
	0.0078 - 0.1969	inch	-	ASTM D374
Thermal Conductivity	3.5	W/mK	±0.35	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	4	kV/mm	±0.4	ASTM D149
Weight Loss	<0.4	%	-	ASTM E595
Density	2.6	g/cm ³	±0.2	ASTM D792
Working Temperature	-45 to 200	°C	-	-
Volume Resistance	>10 ¹¹	Ohm-cm	-	ASTM D257
Elongation	100	%	-	ASTM D412
Tensile Strength	60	N/mm ²	-	ASTM D412
Hardness	40	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



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TG4040LC

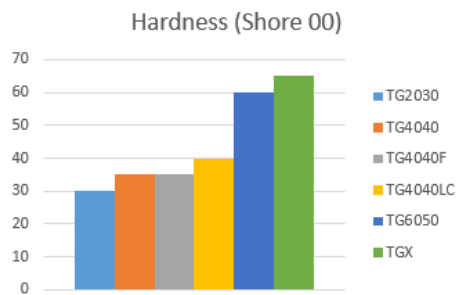
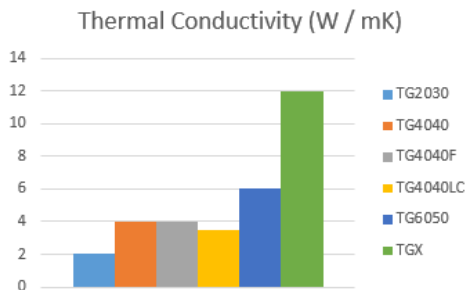
Ultra-Soft Thermal Conductive Pad

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	13.00	20.80	26.00	39.00	52.00	65.00	78.00	91.00	104.00	117.00	130.00
150x150	29.25	46.80	58.50	87.75	117.00	146.25	175.50	204.75	234.00	263.25	292.50	
300x300	117.00	187.20	234.00	351.00	468.00	585.00	702.00	819.00	936.00	1,053.00	1,170.00	
320x320	133.12	212.99	266.24	399.36	532.48	665.60	798.72	931.84	1,064.96	1,198.08	1,331.20	

* All measurements in mm

Data



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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