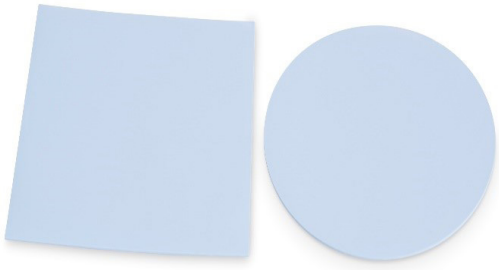
TG4040F
Ultra-Soft Thermal Conductive Pad

Version 2.130218



Ultra-Soft Thermal Conductive Pad

TG4040F is an ultra-soft, silicone based thermal interface material with an additional fiber glass layer for ease of handling. TG4040F has a low thermal impedance, conforms readily to surfaces due to its low hardness and provides a high dielectric breakdown voltage. TG4040F can be provided in various thicknesses and formats, such as custom die cuts, standard sheets or log rolls depending on the end application.

Features

Very good thermal conductivity
Compliancy, high compressibility
Fiberglass on one side
Non-deforming; High tensile strength
Electrical Insulation
Low oil bleed

Applications

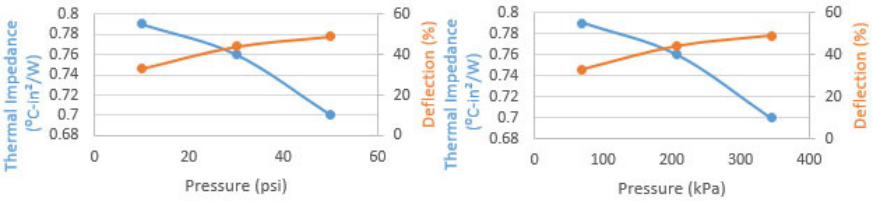
High Power Applications
Electronic components: IC, CPU, MOS
LED, M/B, P/S, Heat Sink
LCD, TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

✓ REACH Compliant
✓ ROHS Compliant

Property	TG4040F	Unit	Tolerance	Test Method
Colour	Blue	-	-	Visual
Thickness	0.5 - 5.0	mm	-	ASTM D374
	0.0197 - 0.1969	inch	-	ASTM D374
Thermal Conductivity	4	W/mK	±0.4	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	15	kV/mm	±1.5	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.8	g/cm³	±0.2	ASTM D792
Working Temperature	-45 to 200	°C	-	-
Volume Resistance	>10^{12}	Ohm-cm	-	ASTM D257
Elongation	100	%	-	ASTM D412
Tensile Strength	1	Kgf/cm²	-	ASTM D412
Hardness	35	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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TG4040F
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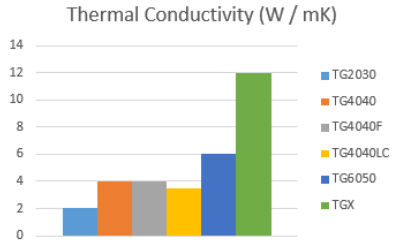
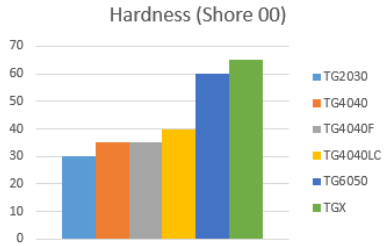
Data





Standard Weights & Dimensional Tolerance

	Thickness (mm)	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
Size	100x100	14.00	22.40	28.00	42.00	56.00	70.00	84.00	98.00	112.00	126.00	140.00
	150x150	31.50	50.40	63.00	94.50	126.00	157.50	189.00	220.50	252.00	283.50	315.00
	300x300	126.00	201.60	252.00	378.00	504.00	630.00	756.00	882.00	1,008.00	1,134.00	1,260.00
	320x320	143.36	229.38	286.72	430.08	573.44	716.80	860.16	1,003.52	1,146.88	1,290.24	1,433.60

* All measurements in mm

	Thickness (mm)	Tolerance (mm)
Die-Cut Thickness Tolerances	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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