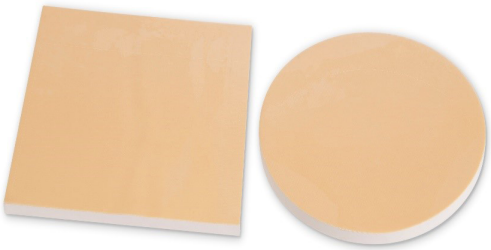
L37-3L
Thermal Conductive Pad

Version 1.280318



Thermal Conductive Pad

L37-3L is a silicone based thermal gap filler which has been formulated for exceptionally low silicone bleed. This allows the product to be used in certain low silicone critical applications, such as optical devices, HDDs and high end communication devices. L37-3L can be provided in a number of different formats including standard sheets, log-rolls and custom die cuts of various thicknesses. L37-3L can also be provided with one or two sided adhesive for ease of manufacture.

Features

One side natural tack with smooth surface and one exceptionally durable
High dielectric breakdown voltage

Applications

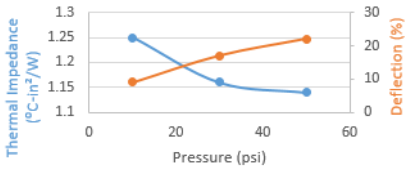
Electronic components: IC, CPU, MOS
LED, M/B, P/S, Heat Sink
LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

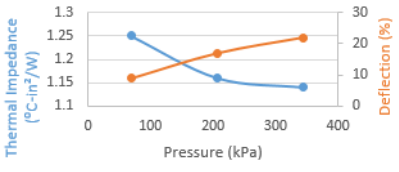
Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	L37-3L	Unit	Tolerance	Test Method
Colour	Yellow	-	-	Visual
Reinforcement Carrier	Fibreglass mesh	-	-	-
Thickness (Available thickness range)	0.5 – 10	mm	-	ASTM D374
	0.0196 - 0.394	inch	-	ASTM D374
Thermal Conductivity	1.5	W/mK	± 0.17	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	15	kV/mm	± 0.1	ASTM D149
Weight Loss	<0.2	%	-	ASTM E595
Density	2.4	g/cm³	± 0.2	ASTM D792
Working Temperature	-45 to 200	˚C	-	-
Volume Resistance	>10¹¹	Ohm-cm	-	ASTM D257
Elongation	20	%	± 0.2	ASTM D412
Hardness	85	Shore A	±3	ASTM D2240

Thermal Impedance vs Pressure vs Deflection





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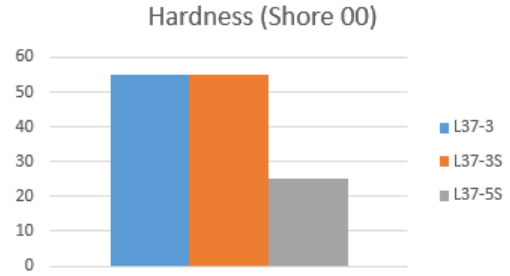
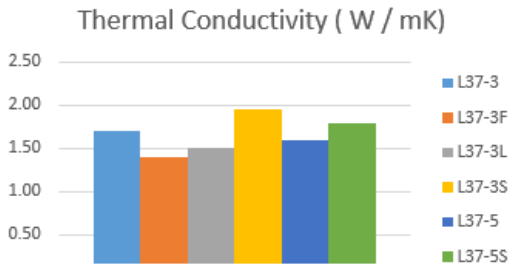
Standard Weights & Dimensional Tolerance

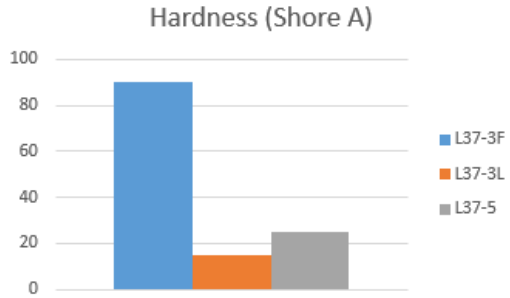
	Thickness (mm)	Weights (g)									
		0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
Size	100x100	12.00	19.20	24.00	36.00	48.00	60.00	72.00	84.00	96.00	108.00
	150x150	27.00	43.20	54.00	81.00	108.00	135.00	162.00	189.00	216.00	243.00
	300x300	108.00	172.80	216.00	324.00	432.00	540.00	648.00	756.00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

	Thickness (mm)	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
Size	100x100	120.00	132.00	144.00	156.00	168.00	180.00	192.00	204.00	216.00	228.00	240.00
	150x150	270.00	297.00	324.00	351.00	378.00	405.00	432.00	459.00	486.00	513.00	540.00
	300x300	1,080.00	1,188.00	1,296.00	1,404.00	1,512.00	1,620.00	1,728.00	1,836.00	1,944.00	2,052.00	2,160.00
	320x320	1,228.80	1,351.68	1,474.56	1,597.44	1,720.32	1,843.20	1,966.08	2,088.96	2,211.84	2,334.72	2,457.60

Data







	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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