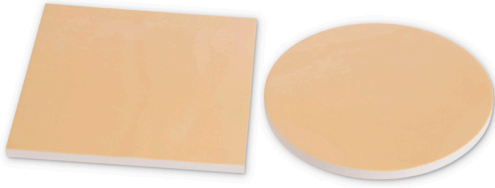


# L37-3

## Thermal Conductive Pad

Version 1.280318



### Thermal Conductive Pad

L37-3 is a silicone based thermal interface pad which offers a good combination of high dielectric breakdown voltage, compliance and low thermal impedance. It contains a fibreglass mesh for enhanced ease of manufacture and is available in various formats such as standard sheets, log-rolls and custom die cut parts. L37-3 is available in a range of thicknesses and with one or two side thermally conductive adhesive preapplied.

### Features

- Base materials are silicone with fibreglass
- One side with natural tack and another side with smooth surface
- Won't be deformed when being pulled
- High dielectric breakdown voltage

### Applications

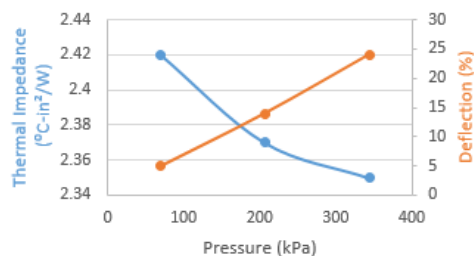
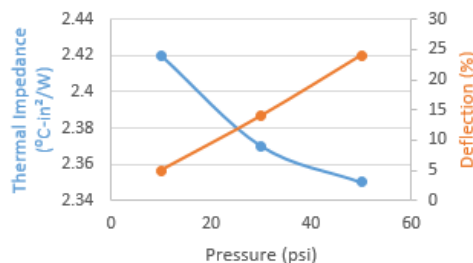
Electronic components: IC, CPU, MOS  
 LED, M/B, P/S, Heat Sink  
 LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.  
 DDR II Module, DVD Applications, Hand-set applications, etc.

### Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	L37-3	Unit	Tolerance	Test Method
Colour	Yellow	-	-	Visual
Reinforcement Carrier	Fibreglass mesh	-	-	-
Thickness	0.3 - 20	mm	-	ASTM D374
	0.0118 - 0.787	inch	-	ASTM D374
Thermal Conductivity	1.7	W/mK	±0.17	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	10	kV/mm	±0.1	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.17	g/cm <sup>3</sup>	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	>10 <sup>12</sup>	Ohm-cm	-	ASTM D257
Elongation	-	%	±0.2	ASTM D412
Tensile Strength	66.4	Kgf/cm <sup>2</sup>	-	ASTM D412
Hardness	55	Shore 00	±10	ASTM D2240

### Thermal Impedance vs Pressure vs Deflection



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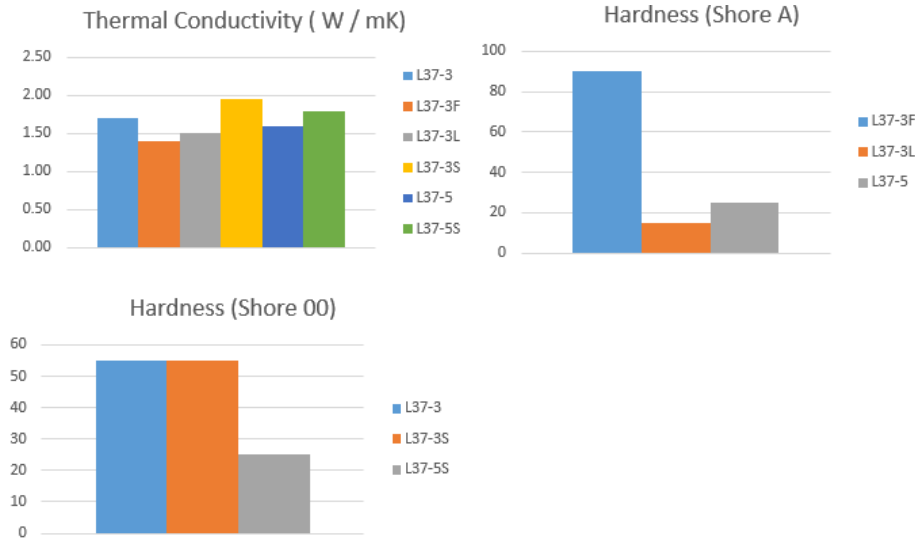
# L37-3 Thermal Conductive Pad

## Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	Weights (g)										
		0.30	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
100x100	100x100	6.51	10.85	17.36	21.70	32.55	43.40	54.25	65.10	75.95	86.80	97.65
	150x150	14.65	24.41	39.06	48.83	73.24	97.65	122.06	146.48	170.89	195.30	219.71
	300x300	58.59	97.65	156.24	195.30	292.95	390.60	488.25	585.90	683.55	781.20	878.85
	320x320	66.66	111.10	177.77	222.21	333.31	444.42	555.52	666.62	777.73	888.83	999.94

Size	Thickness (mm)	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
		100x100	100x100	108.50	119.35	130.20	141.05	151.90	162.75	173.60	184.45	195.30
150x150	244.13		268.54	292.95	317.36	341.78	366.19	390.60	415.01	439.43	463.84	488.25
300x300	976.50		1,074.15	1,171.80	1,269.45	1,367.10	1,464.75	1,562.40	1,660.05	1,757.70	1,855.35	1,953.00
320x320	1,111.04		1,222.14	1,333.25	1,444.35	1,555.46	1,666.56	1,777.66	1,888.77	1,999.87	2,110.98	2,222.08

## 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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