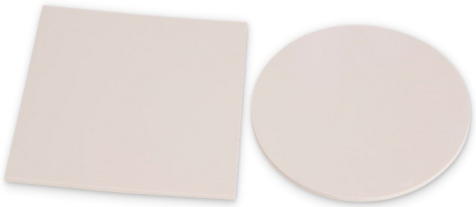
L37-3S
Thermal Conductive Pad

Version 2.180220



Thermal Conductive Pad

L37-3S is an ultra-soft silicone gap filler which has exceptional conformation to surface, a low thermal impedance and high dielectric breakdown voltage. L37-3S can be supplied in various formats ranging from standard sheets to custom die-cut pads in various thicknesses.

Features

Very good thermal conductivity
Soft and high compressibility
Natural tack
Easy to assemble
Good insulator
Great reworkability

Applications

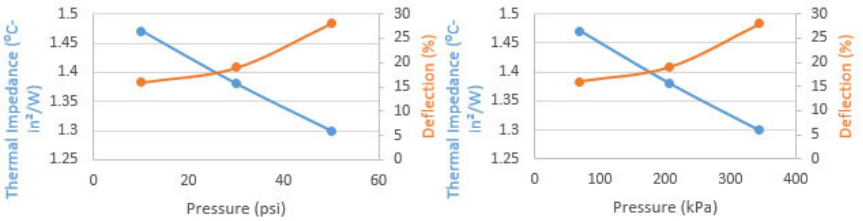
Electronic components: IC, CPU, MOS
LED, M/B, P/S, Heat Sink
LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

✓ REACH Compliant
✓ ROHS Compliant

Property	L37-3S	Unit	Tolerance	Test Method
Colour	Light yellow	-	-	Visual
Thickness	0.3 - 20	mm	-	ASTM D374
	0.0118 - 0.787	inch	-	ASTM D374
Thermal Conductivity	1.95	W/mK	±0.19	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	›13	kV/mm	±1.3	ASTM D149
Weight Loss	‹1	%	-	ASTM E595
Density	2.21	g/cm³	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	$>10^{12}$	Ohm-cm	-	ASTM D257
Elongation	350	%	±0.2	ASTM D412
Tensile Strength	8	Kgf/cm²	±5	ASTM D412
Standard Shape	Sheet 320x320	mm	-	-
Hardness	55	Shore 00	±10	ASTM D2240

Thermal Impedance vs Pressure vs Deflection



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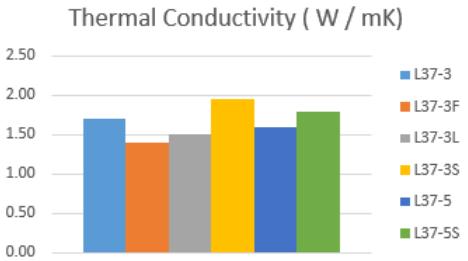
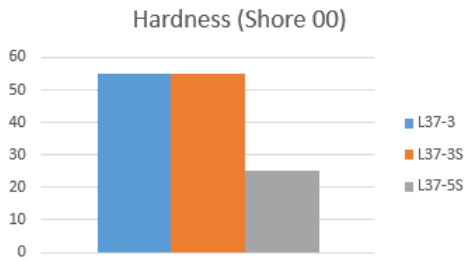
Standard Weights & Dimensional Tolerance

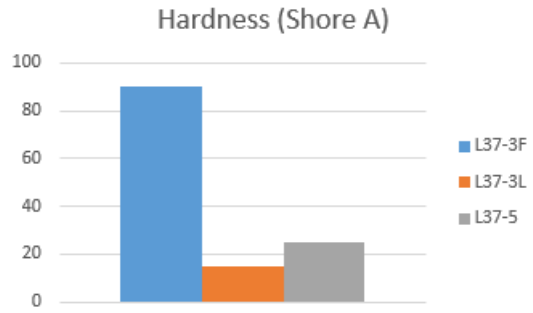
Size	Thickness (mm)	Weights (g)										
		0.30	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
	100x100	6.63	11.05	17.68	22.10	33.15	44.20	55.25	66.30	77.35	88.40	99.45
	150x150	14.92	24.86	39.78	49.73	74.59	99.45	124.31	149.18	174.04	198.90	223.76
	300x300	59.67	99.45	159.12	198.90	298.35	397.80	497.25	596.70	696.15	795.60	895.05
	320x320	67.89	113.15	181.04	226.30	339.46	452.61	565.76	678.91	792.06	905.22	1,018.37

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	110.50	121.55	132.60	143.65	154.70	165.75	176.80	187.85	198.90	209.95	221.00
	150x150	248.63	273.49	298.35	323.21	348.08	372.94	397.80	422.66	447.53	472.39	497.25
	300x300	994.50	1,093.95	1,193.40	1,292.85	1,392.30	1,491.75	1,591.20	1,690.65	1,790.10	1,889.55	1,989.00
	320x320	1,131.52	1,244.67	1,357.82	1,470.98	1,584.13	1,697.28	1,810.43	1,923.58	2,036.74	2,149.89	2,263.04

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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