



L37-5 Thermal Conductive Pad

Version 2.180220

Thermal Conductive Pad

L37-5 is a silicone gap fillers which is designed to offer a combination of low thermal impedance, good compressibility and breakdown voltage for a wide range of applications.

Features

Very good thermal conductivity
Durable
Upto thickness 20mm
Electrical insulation

Applications

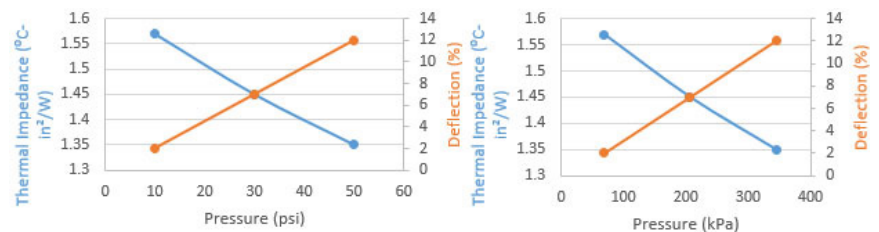
Electronic components: IC, CPU, MOS
LED, M/B, P/S, Heat Sink
LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	L37-5	Unit	Tolerance	Test Method
Colour	Grey	-	-	Visual
Thickness (Available thickness range)	0.3 – 20	mm	-	ASTM D374
	0.0118 - 0.787	Inch	-	ASTM D374
Thermal Conductivity	1.6	W/mK	±0.16	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	>10	kV/mm	±1	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.38	g/cm ³	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	>10 ¹²	Ohm-cm	-	ASTM D257
Elongation	300	%	±0.2	ASTM D412
Tensile Strength	12	Kgf/cm ²	±5	ASTM D412
Hardness	25	Shore A	±2.5	ASTM D2240

Thermal Impedance vs Pressure vs Deflection



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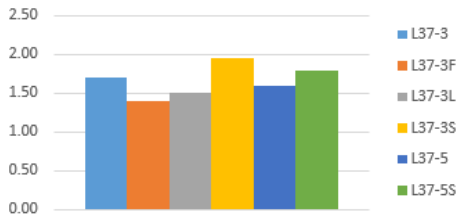
Standard Weights & Dimensional Tolerance

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	100x100	7.14	11.90	19.04	23.80	35.70	47.60	59.50	71.40	83.30	95.20	107.10
	150x150	16.07	26.78	42.84	53.55	80.33	107.10	133.88	160.65	187.43	214.20	240.98
	300x300	64.26	107.10	171.36	214.20	321.30	428.40	535.50	642.60	749.70	856.80	963.90
	320x320	73.11	121.86	194.97	243.71	365.57	487.42	609.28	731.14	852.99	974.85	1,096.70

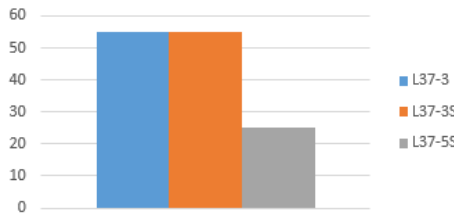
Size	Thickness (mm)	Weights (g)										
		5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
100x100	100x100	119.00	130.90	142.80	154.70	166.60	178.50	190.40	202.30	214.20	226.10	238.00
	150x150	267.75	294.53	321.30	348.08	374.85	401.63	428.40	455.18	481.95	508.73	535.50
	300x300	1,071.00	1,178.10	1,285.20	1,392.30	1,499.40	1,606.50	1,713.60	1,820.70	1,927.80	2,034.90	2,142.00
	320x320	1,218.56	1,340.42	1,462.27	1,584.13	1,705.98	1,827.84	1,949.70	2,071.55	2,193.41	2,315.26	2,437.12

Data

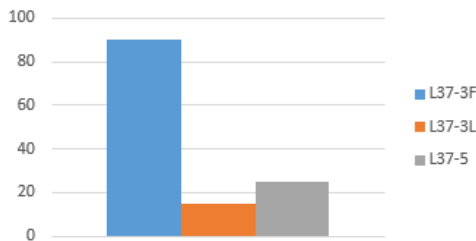
Thermal Conductivity (W / mK)



Hardness (Shore 00)



Hardness (Shore A)



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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