



# L37-3F Thermal Conductive Pad

Version 1.180418

## Thermal Conductive Pad

L37-3F is an ultra thin 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. L37-3F is available in a range of thicknesses and with one or two side thermally conductive adhesive pre-applied.

## Features

Made of silicone, thermal conductive particles, fibreglass  
 Low elongation  
 Electrical insulation  
 Easy to assemble

## Applications

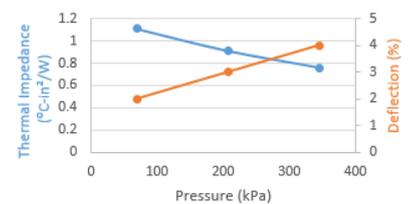
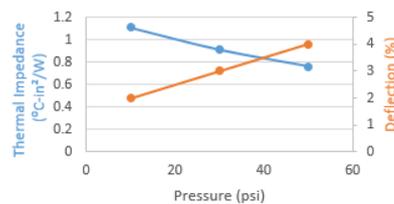
Electronic components: IC, CPU, MOS  
 LED, M/B, P/S, Heat Sink  
 LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.  
 DDR II Module, DVD Applications, Hand-set applications, etc.

## Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	L37-3F	Unit	Tolerance	Test Method
Colour	Yellow	-	-	Visual
Thickness (Available thickness range)	0.25/0.3/0.45	mm	-	ASTM D374
	0.0098/0.0118/0.0177	inch	-	ASTM D374
Thermal Conductivity	1.4	W/mK	±0.14	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	4	kV/mm	±0.4	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2	g/cm <sup>3</sup>	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	>10 <sup>13</sup>	Ohm-cm	-	ASTM D257
Elongation	5	%	±13	ASTM D412
Tensile Strength	150	Kgf/cm <sup>2</sup>	±2	ASTM D412
Hardness	90	Shore A	±3	ASTM D2240

## Thermal Impedance vs Pressure vs Deflection



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## Standard Weights & Dimensional Tolerance

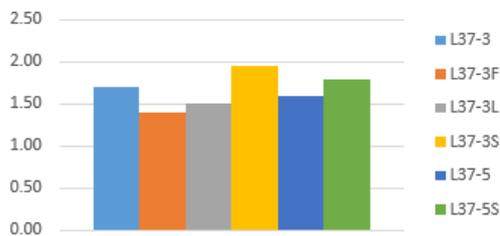
Size	Thickness (mm)	0.25	0.30	0.45
	100x100		5.00	6.00
150x150		11.25	13.50	20.25
300x300		45.00	54.00	81.00
320x320		51.20	61.44	92.16

\* All measurements in weights are in gr

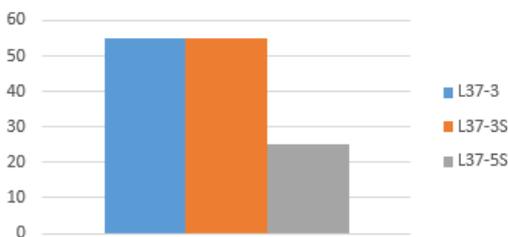
\*\* All sizes are in mm

## Data

Thermal Conductivity ( W / mK)



Hardness (Shore 00)



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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