



# 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

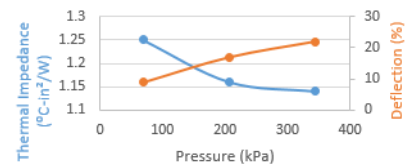
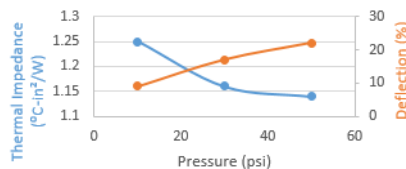
Electronic components: IC, CPU, MOS  
LED, M/B, P/S, Heat Sink  
LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.  
DDR II Module, DVD Applications, Hand-set applications, etc.

### 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/cm <sup>3</sup> | ± 0.2     | ASTM D792   |
| Working Temperature                   | -45 to 200        | °C                | -         | -           |
| Volume Resistance                     | >10 <sup>11</sup> | Ohm-cm            | -         | ASTM D257   |
| Elongation                            | 20                | %                 | ± 0.2     | ASTM D412   |
| Hardness                              | 85                | Shore A           | ±3        | ASTM D2240  |

### Thermal Impedance vs Pressure vs Deflection



T-Global Technology Limited  
1 & 2 Cosford Business Park, Central Park,  
Lutterworth, Leicestershire LE17 4QU U.K.

Tel: +44 (0)1455 553 510  
Email: sales@tglobaltechnology.com  
Web: www.tglobaltechnology.com  
Skype: tglobal.technology  
VAT #: GB 116 662 714



# L37-3L Thermal Conductive Pad

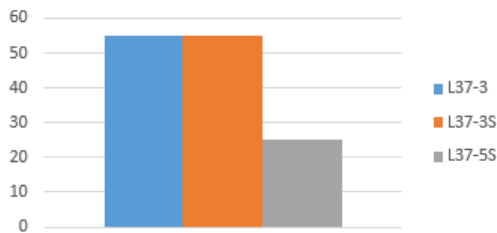
## Standard Weights & Dimensional Tolerance

| Size | 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 |

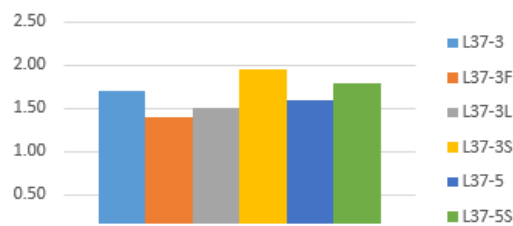
| Size | Thickness (mm) | Weights (g) |          |          |          |          |          |          |          |          |          |          |
|------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|      |                | 5.00        | 5.50     | 6.00     | 6.50     | 7.00     | 7.50     | 8.00     | 8.50     | 9.00     | 9.50     | 10.00    |
| 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

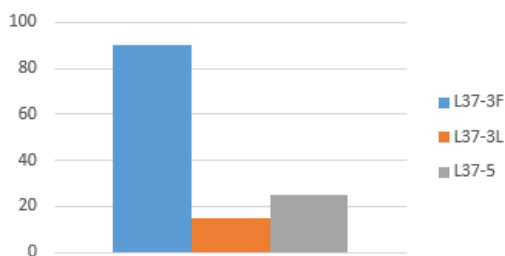
Hardness (Shore 00)



Thermal Conductivity ( W / mK)



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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