



L37-5 Thermal Conductive Pad

Version 1.280318

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. L37-5 can also be provided with one or two sided thermally conductive adhesive for ease of manufacture.

Features

Very good thermal conductivity
Durable
Upto thickness 20mm
Electrical insulation

Applications

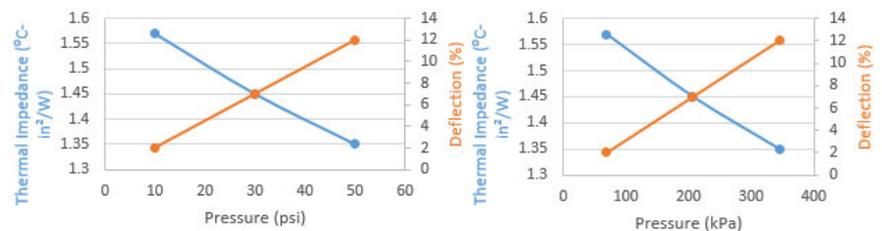
Electronic components: IC, CPU, MOS
LED, M/B, P/S, Heat Sink
LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

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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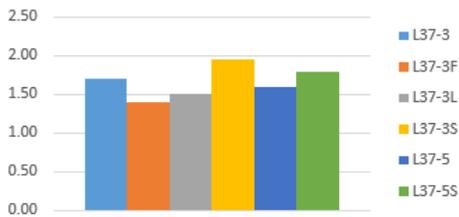
Standard Weights & Dimensional Tolerance

| 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 |

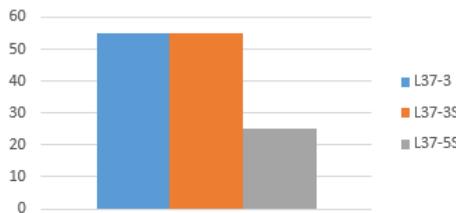
| Size | Thickness (mm) | Weights (g) | | | | | | | | | | |
|---------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 | 8.50 | 9.00 | 9.50 | 10.00 |
| 100x100 | 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

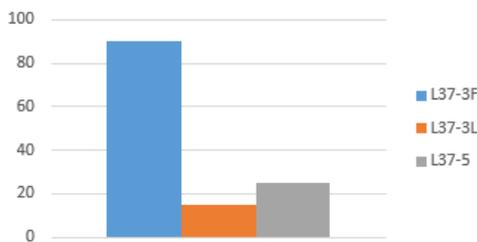
Thermal Conductivity (W / mK)



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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