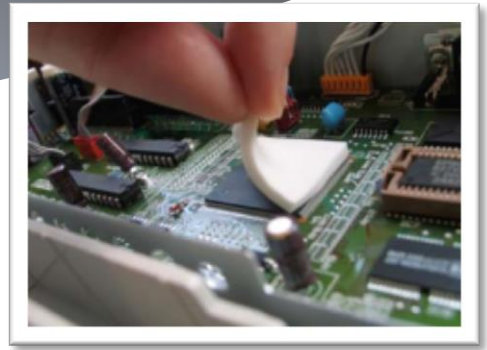


UniGap 6000

High Performance Gap Filler



UniGap 6000 is one of our highest performing gap fillers. It delivers 6.W/mK of thermal conductivity, particularly suited to extremely demanding applications.

UniGap 6000 is formulated with ceramic particles enabling extremely consistent and repeatable thermal performance. This in combination with stability over a wide range of operating temperatures makes UniGap 6000 ideal for medical, aerospace and military applications.

Features

- Ceramic filled gap filling pad
- Thermal conductivity = 6.0W/mK
- Compliant surfaces on both sides function to reduce interfacial thermal resistance
- Electrically insulating via high dielectric strength

Availability

- Thicknesses of 0.5mm to 5.0mm in incremental steps of 0.5mm
- Available as custom die-cut shapes and standard sheet sizes of 229mm x 229mm
- Can be supplied with fibreglass reinforcements for additional strength and puncture resistance

Typical Physical Properties

| Property (unit) | Test Method | UniGap 6000 (1.5mm) |
|---------------------------------------|-------------|---------------------|
| Colour | Visual | Light Grey |
| Thickness (mm) | In House | 0.5-6.0 |
| Thermal Conductivity (W/mK) | ASTM D5470 | 6.0 |
| Hardness (Shore 00) | ASTM D2240 | 70 |
| Thermal Impedance (°C-cm²/W @ 138KPa) | ASTM D5470 | 3.30 |
| Operating Temp. (°C) | - | -45 to +190 |
| Flame Rating | UL94 | HB |

Benefits

- High thermal conductivity for efficient maximisation of heat transfer to a heatsink or nearby metal work
- Despite high thermal conductivity inherent softness is still exhibited
- Fills micro air voids between contact surfaces for improved thermal performance

Recommended Uses

- For demanding applications where a robust and high performance gap filler is needed
- Cooling portable , military, medical and aerospace electronics
- Additional cooling for FETs or other power devices

Electrical and Mechanical Information

| Property (unit) | Test Method | UniGap 6000 (1.5mm) |
|------------------------------|-------------|---------------------|
| Tensile Strength (PSI) | ASTM D412 | 20 |
| Elongation (%) | ASTM D412 | 6 |
| Breakdown Voltage (Volts AC) | ASTM D149 | >5000 |
| Dielectric Constant (@1MHz) | ASTM D150 | 3.30 |
| Density (g/cc) | - | 1.40 |
| Outgassing CVCM (%) | ASTM E595 | 0.05 |



www.universal-science.com

UK +44 (0) 1908 222 211 NL +31 (0) 35 5239 209

IT +39 (02) 395 613 61 FR +33 (0) 1602 00276

USA +1 440 382 1077



This material is often used in these industries:



Industrial



Medical



Automotive



PSU