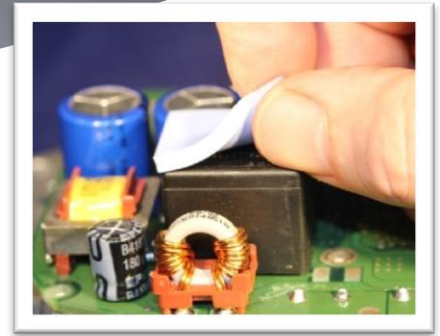


UniGap 3000

Silicone Gap Filler



UniGap 3000 is a soft ceramic-filled, high performance silicone elastomer typically supplied with a polymer release liner on both sides for simple application.

UniGap 3000 is intrinsically tacky which excludes air at microscopic level and requires no additional adhesive. It has excellent compression performance over a wide range of stack up tolerances and applies minimal force to electronic components. UniGap 3000 can be supplied with a fabric or film on one side for additional support during assembly.

Features

- Soft and compliant gap filler with excellent thermal performance
- Thermal conductivity = 3.0 W/mK
- Integral support using fabric or polymer film
- Fabric support option provides good cut through resistance for dielectric continuity

Availability

- Thicknesses of 0.5mm to 5.0mm in incremental steps of 0.5mm
- Available as custom die-cut shapes and parts
- Standard sheet sizes of: 0.5mm to 1.0mm thick = 457mm x 457mm, 229mm x 229mm above 1mm

Benefits

- Softness results in low pressures applied to devices
- High thermal conductivity and electrical isolation
- Cost effective gap filler solution for high thermal dissipation resulting in enhanced reliability
- Improved die cutting and part stability while handling

Recommended Uses

- Any gap filler application with large component height differences can be covered with a single pad
- Typically used in memory cards, VGA modules, LED assemblies and other multiple component height applications

Typical Physical Properties

Property (unit)	Test Method	UniGap 3000 (2.0mm)
Colour	Visual	Blue
Thermal Conductivity (W/mK)	ASTM D5470	3.0
Hardness (Shore 00)	ASTM D2240	40
Thermal Impedance (°C-cm ² /W @ 69KPa)	ASTM D5470	4.96
Operating Temp. (°C)	-	-50 to +200
Flame Rating	UL94	V-0

Electrical and Mechanical Information

Property (unit)	Test Method	UniGap 3000 (2.0mm)
Tensile Strength (PSI)	ASTM D412	47
Elongation (%)	ASTM D412	98
Breakdown Voltage (Volts AC)	ASTM D149	>10,000
Volume Resistivity (Ω-cm)	ASTM D257	9.5 x 10 ¹²
Dielectric Constant @ 1MHz	ASTM D150	13.60
Density (g/cc)	-	3
Outgassing CVCM (%)	ASTM E595	0.04



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This material is often used in these industries:



Industrial



Medical



Automotive



Military