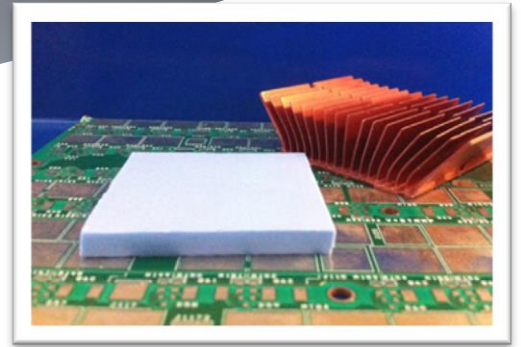


UniGap 1800

Soft Gap Filler



UniGap 1800 is a very soft and conformable gap filler that delivers exceptional shock absorption properties as well as good thermal performance.

UniGap 1800 is naturally tacky and its inherent softness adheres to imperfectly mating surfaces, obviating micro-air voids at the interface thereby reducing thermal resistance to an absolute minimum. UniGap 1800 maintains optimal thermal performance over a wide temperature range. The material delivers high dielectric strength for electrical insulation.

Features

- Compliant and electrically insulating
- Thermal conductivity = 1.8 W/mK
- Delivers excellent vibration dampening properties
- Simple and easy to apply and handle

Availability

- Thicknesses of 0.5mm to 5.0mm
- Available as custom die-cut shapes and forms
- Standard sheet sizes of 400mm x 400mm and 300mm x 300mm in 5.0mm thick

Benefits

- Softness permits conformability with components of varying heights and sizes with a single pad
- Interfacial thermal resistance is reduced to a minimum

Recommended Uses

- Any gap filler application where costs need to be kept low and a moderate thermal demand exists
- Applications requiring wide temperature excursions
- Typically used to thermally connect components of varying height to a heat spreader or nearby metal work

Typical Physical Properties

Property (unit)	Test Method	UniGap 1800
Colour	Visual	Blue
Thickness (mm)	In House	0.5-5.0
Thermal Conductivity (W/mK)	ASTM D5470	1.8
Hardness (Shore 00)	ASTM D2240	15
Operating Temp. (°C)	-	-40 to +150
Flame Rating	UL94	V-0

Electrical and Mechanical Information

Property (unit)	Test Method	UniGap 1800
Tensile Strength (Mpa)	ASTM D412	0.15
Elongation (%)	ASTM D412	360
Breakdown Voltage (kV/mm)	ASTM D149	12.0
Dielectric Constant (@1MHz)	ASTM D150	3.3
Volume Resistivity (Ω -cm)	ASTM D257	8.50×10^{13}



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This material is often used in these industries:



Industrial



Telecom



Automotive



PSU

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