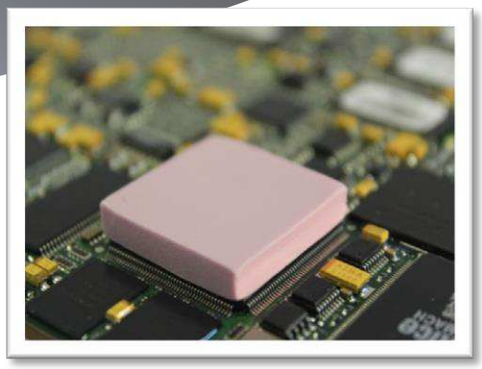
UniGap 1700US
Compliant Gap Filler



UniGap 1700US is an ultra soft gap filling material formulated to thermally connect sensitive components and devices to nearby metal work or a cold wall.

UniGap 1700US delivers excellent vibration dampening properties that protect pressure sensitive heat generating components from dimensional changes. Its softness allows for varying component heights and sizes to conform to the surface texture of the material. **UniGap 1700US** delivers 1.7W/mK thermal conductivity and is ideal for applications that require a combination of good temperature stability, large temperature excursions and vibration dampening.

Features

- Extremely compliant and electrically insulating
- Thermal conductivity = 1.7W/mK
- Naturally tacky, no need for adhesive
- Softness permits coupling of multiple height components to nearby metal work

Benefits

- Superb elastic reverse properties and soft surfaces protects sensitive components from dimensional changes and pressure exertions during operation
- Interfacial thermal resistance is reduced to a minimum
- Compliant and easy to apply

Availability

- Thicknesses of 0.5mm to 6.0mm
- Available as custom die-cut shapes and standard sheet sizes of 609mm x 609mm

Recommended Uses

- Any gap filling requirement where heat generating components are sensitive to pressure changes
- Cooling power devices in AC-DC and DC-DC PSUs
- Cooling digital signal processing (DSP) units

Typical Physical Properties

Property (unit)	Test Method	UniGap 1700US
Colour	Visual	Pink
Thermal Conductivity (W/mK)	ASTM D5470	1.7
Hardness (Shore 00)	ASTM D2240	30
Thermal Impedance (°C-in²/W @ 80 mils)	ASTM D5470	1.90
Operating Temp. (°C)	-	-50 to +200
Flame Rating	UL94	V-0

Electrical and Mechanical Information

Property (unit)	Test Method	UniGap 1700US
Breakdown Voltage (Volts AC)	ASTM D149	>5000
Elongation (%)	ASTM D412	85
Dielectric Constant (@1MHz)	ASTM D150	5.0
Outgassing CVCM (%)	ASTM E595	0.08

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This material is often used in these industries:

Industrial | Medical | Automotive | PSU

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