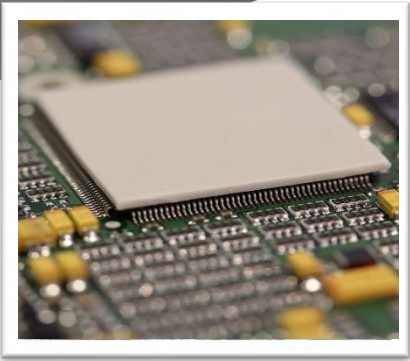


UniGap 8000NS

Non-Silicone Gap Filler



UniGap 8000NS is a soft ceramic-filled, high performance non-silicone elastomer typically supplied with a polymer release liner on both sides for simple application. **UniGap 8000NS** is intrinsically tack 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.

Features

- Soft and compliant gap filler with excellent thermal performance
- Thermal conductivity = 8.0 W/mK
- Excellent compressibility
- Silicone free

Availability

- Thicknesses of 0.5mm to 4.0mm (in 0.25mm increments)
- Available as custom die-cut shapes and parts
- Standard sheet sizes of 225 x 225mm

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

- Low outgassing or silicone free requirements for automotive telecom and aerospace applications
- Typically used in EV Battery packs, battery housings, power supplies, power cable connectors. Automotive ECU (electronic control units), power supplies, microprocessors, displays, consumer electronics and telecoms.

Typical Physical Properties

Property (unit)	Test Method	UniGap 8000NS
Colour	Visual	Grey
Thermal Conductivity (W/mK)	ASTM D5470	8.0
Hardness (Shore 00)	ASTM D2240	80
Thermal Impedance (°C-in ² /W)	ASTM D5470	0.2
Operating Temp. (°C)	-	-20 to 120
Flame Rating	UL94	V-0

Electrical and Mechanical Information

Property (unit)	Test Method	UniGap 8000NS
Weight Loss (%)	120°C – 188hrs	0.2
Dielectric Constant (@1MHz)	ASTM D150	16
Density (g/cc)	-	3
Breakdown Voltage (Volts AC)	ASTM D149	>10,000
Volume Resistivity (Ω-cm)	ASTM D257	5x10 ¹²
Outgassing CVCM (%)	ASTM E595	0.04



www.universal-science.com
UK  +44 (0) 1908 222 211

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



This material is often used in these industries:



Information furnished by Universal Science regarding technical data is believed to be accurate and reliable but our customers bear the responsibility in assessing fitness for purpose. Universal Science makes no warranties as to the fitness, merchantability or suitability of any materials or products for any uses. Universal Science shall not be liable for damages of any kind. Universal Science terms and conditions of sale apply.