

UniGrease 800

Silicone Thermal Grease



UniGrease 800 is a soft, paste like, thermally conductive silicone grease that delivers a low bleed and low volatility thermal solution.

UniGrease 800 possesses excellent thermal conductivity in combination with good dielectric properties. Its soft consistency and high extrusion rate facilitates application by syringe into small gaps. This unique formulation makes UniGrease 800 highly suited for use in mounting semi-conductor devices to a heatsink.

Features

- Soft silicone based thermal grease
- Thermal conductivity = 0.8 W/mK
- Low volatility and low bleed, even at elevated temperatures of up to 150°C
- Good dielectric properties

Availability and Storage

- Supplied in containers, syringes and cartridges for manual, semi-automatic and automatic dispensing
- Should be stored in original sealed containers for contamination prevention
- Unaffected by storage temperatures and stable under normal conditions for 12 months

Benefits

- Thermally couples two imperfectly mating surfaces by obviating air voids at the interface
- Provides excellent shock protection when used within a semi-conductor device

Recommended Uses

- Mounting semi-conductor devices to heatsinks
- Thermally connecting a wide variety of electrical devices and electronic equipment to a cold wall, chassis or heatsink

General Properties

Property (unit)	Test Method	UniGrease 800
Colour	Visual	White
Thermal Conductivity (W/mK)	ASTM D5470	0.80
Operating Temp. (°C)	In House	-50 to +150
Bleed @ 200°C for 30 hours (%)	In House	0.2
Weight Loss @ 200°C for 30 hours (%)	In House	0.2
Specific Gravity	ASTM D70	2.30

Electrical and Mechanical Information

Property (unit)	Test Method	UniGrease 800
Dielectric Strength @ 1MHz (kV/mm)	ASTM D149	11.0
Dielectric Constant @ 1MHz	ASTM D150	4.0
Volume Resistivity (Ω.cm)	ASTM D2240	1.1 x 10 ¹⁵
Dissipation Factor @ 1MHz	ASTM D150	3.20



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