

UniPutty 1800

Thermal Gap Filling Putty



UniPutty 1800 is a soft and compliant, ceramic-filled, silicone based thermal gap filler that is ideal for applications where large gap tolerances are present.

UniPutty 1800 delivers superb thermal performance and electrical isolation properties. The unique viscous formulation of UniPutty 1800 eliminates bleed and pump-out during operation. The compound's compliant nature results in little or no pressure exertions between mating surfaces and differences in the bond line at the interface are also controlled more easily. UniPutty 1800 is applied easily via manual, semi-automatic and automatic dispensing.

Features

- Highly viscous and soft silicone gap filler
- Thermal conductivity = 1.8 W/mK
- Applied like grease and dispensed simply via a wide variety of applications
- Compliant and soft

Availability

- Supplied in syringes or cartridges for manual, automatic or semi-automatic application
- Other bulk packaging is available on request

Benefits

- Soft and compliant nature results in little or no pressure exertions applied during operation between interfaces
- Will not pump-out, bleed or phase separate
- Unique ceramic-filled formulation results in superb thermal performance

Recommended Uses

- Typically used to thermally connect high wattage electronic components
- Within flip chip microprocessor applications
- Ideal for LED lighting and telecom applications

Typical Physical Properties

Property (unit)	Test Method	UniPutty 1800
Colour	Visual	Grey
Operating Temp.(°C)	In House	-40 to 200
Thermal Conductivity (W/mK)	ASTM D5470	1.8
Thermal Resistance @ final thickness of 0.0005mm (°C - cm ² /W)	ASTM D5470	1.70
Outgassing CVCM (%)	ASTM E595	0.08

Electrical and Mechanical Properties

Property (unit)	Test Method	UniPutty 1800
Dielectric Strength (VAC/0.025mm)	ASTM D149	500
Volume Resistivity (Ω-cm)	ASTM D2240	>10 ¹⁴
Viscosity (mPas)	Brookfield	4,000,000 to 8,000,000
Density (g/cc)	-	2.6



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This material is often used in these industries:



Telecom



LED



Automotive



PSU

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