

UniPutty 1700NS

Thermal Gap Filler



UniPutty 1700NS is a non-silicone, one part dispensing viscous paste.

UniPutty 1700NS exhibits putty like properties and provides excellent thermal performance for silicone sensitive applications. UniPutty 1700NS is highly viscous which ensures the material will stay in place during operation and that thermal performance is maintained over a wide temperature range. UniPutty 1700NS will cure only at air exposed edges over time whilst the material within, remains compliant and resistant to pressure exertions and dimensional changes that can occur during thermal cycling.

Features

- Suits silicone sensitive applications
- Thermal conductivity = 1.7 W/mK
- Highly viscous, thixotropic and cures in place remaining compliant during lifetime
- Maintains thermal performance in temperatures up to 180°C

Availability

- Supplied in syringes or cartridges for easy application
- Dispensing is simple through a one part system

Benefits

- Thermal 'wet out' is achieved at interfaces keeping thermal resistance minimal
- Provides good thermal conductivity
- Post-cure compound remains compliant and flexible resulting in low component pressure exertions and vibration dampening

Recommended Uses

- Automatic and semi-automatic dispensing for high volume applications
- Typically used within LED lighting assemblies, power supplies, automotive and telecommunications

Typical Physical Properties

Property (unit)	Test Method	UniPutty 1700NS
Colour	Visual	Grey
Operating Temp.(°C)	In House	-40 to 180
Thermal Conductivity (W/mK)	ASTM D5470	1.7
Bleed @ 200°C for 24hrs (%/Wt)	FTM-321	0
Evaporation @ 200°C for 24hrs (%/Wt)	FTM-321	0
Specific Gravity (@25°C)	ASTMD70	2.6

Electrical Properties

Property (unit)	Test Method	UniPutty 1700NS
Dielectric Strength (V/0.025mm) @ 1.27mm Gap	ASTM D149	310
Dissipation Factor 25°C @ 1000 Hz	ASTM D150	0.0025
Volume Resistivity (Ω-cm)	ASTM D257	2.0 x 10 ¹⁵
Dielectric Constant 25°C @ 1000 Hz	ASTM D150	5.0



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This material is often used in these industries:



Industrial



LED



Automotive



PSU

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