



GF-500045 Thermal Conductive Gap Filler

Description:

This product is a two part silicone based thermally conductive gel, which is a paste-like material that can be cured at room temperature or elevated temperature. After curing, the product is a soft and compressible elastomer capable of dissipating heat between two different sources. The operating temperature of this product is from -40 to 200°C with excellent thermal performance and compliance, which can meet the customer needs.

Characteristic

- Good process ability and can effectively fill the gap
- Good insulation property with good reliability
- UL94 V-0 flame classification

Typical Applications

- LED lighting
- Automotive electronics
- Telecom base stations
- Microprocessors and graphic chips



Typical Properties

Properties	Typical value		Test method
Before mix	Part A	Part B	
Color	Blue	White	Visual
Viscosity* (mPa*s)	142,000	163,000	ASTM D2196
Viscosity* (mPa*s)	151,000		ASTM D2196
Density (g/cc)	3.35	3.35	ASTM D792
Mix ratio	1:1		/
Cured properties			
Color	Blue		Visual
Thermal Conductivity (W/m*K)	5.0		ASTM D5470
Durometer (Shore 00)	65		ASTM D2240
Dielectric Strength (kV/mm)	>10		ASTM D149
Volume Resistivity (Ω*cm)	>10 ¹²		ASTM D257



Properties	Typical value	Test method
Working Time@25°C (h)	2	ASTM D2196
Cure Time@25°C (h)	24	ASTM D2240
Cure Time@80°C (min)	30	ASTM D2240
Flame Classification	V-0	UL-94
Tensile Strength (MPa)	0.2	ASTM D412
Elongation (%)	30	ASTM D638
D3-D10 Content (ppm)	<150	ASTM F2466
Operating Temperature (°C)	-40~200	/

*Brookfield DV2T SC4-14, 25rpm

Application:

Part A and Part B should be thoroughly mixed 1:1 either by volume or weight and cured at room temperature or elevated temperature conditions. Static mixer is recommended for manual and automated mixing.

Storage:

- Shelf life: 6 months
- Temperature: 10°C~30°C
- Relative humidity: RH<70%

Package:

- 400mL dual cartridge
- 5 gallon pail
- 55 gallon drum

The technical data in this data sheet only represent typical values, not the test values of each batch of products. If you need the technical specification of the final product, please contact the relevant technical personnel.

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