8327GF25

THERMAL GAP FILLER, SILICONE

8327GF25 is a two-component, flame retardant, thermally conductive silicone gap filler. It is a smooth, non-sagging paste that easily conforms to the complex shapes of any interface design. The cured product creates a thermal path that efficiently dissipates heat from electronic devices. It retains its softness after cure which maximizes stress relief during thermal cycling. 8327GF25 can be used as a liquid alternative for prefabricated solid thermal pads.

If higher thermal conductivity is desired, use 8327GF41.

Features and Benefits

- High thermal conductivity
- Quick low-temperature cure
- Easy to use
- Flame retardant—meets UL 94V-0
- Reworkable

Available Packaging

Cat. No.	Packaging	Net Volume	Net Weight
8327GF25-50CC	Cartridge	46 mL	133 g

Contact Information

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Cured Properties

Resistivity	6.0 x 10^{14} Ω·cm
Thermal Conductivity	2.5 W/(m·K)
Thermal Resistance	35 (mm^2·K)/W
CTE	-153 ppm/°C
Dielectric Strength	508 V/mil
Density	2.90 g/cm^3
Tensile Strength	0.4 MPa
Elongation	70%
Hardness	50 E
Low Volatile Siloxane (D_4-D_{10})	200 ppm
Relative Temperature Index (RTI)	150 °C (planned)

Usage Parameters

Working Time	4 h
Cure Time	24 h @ 22 ˚C or 30 min @ 70 ˚C

Uncured Properties

Mixture

Viscosity @ 25 ˚C	100 Pa·s
Mix Ratio by Volume	1:1
Shelf Life	6 months

Individual Parts

Color	Dark grey (A) Light grey (B)
Viscosity @ 25 ˚C	100 Pa·s (A) 100 Pa·s (B)

Application Instructions

Read the product's SDS before using it (downloadable at www.mgchemicals.com).

Cartridge

To insert the cartridge in the gun (MG 8DG-50-1-1), see the Dispensing Accessories Application Guide.

1. Twist and remove the cap from the cartridge. Do not discard cap.
2. Dispense a small amount to ensure even flow of both parts.
3. (Optional) Attach a static mixer.
   a. Dispense and discard 5 to 10 mL of the product to ensure a homogeneous mixture.
   b. After use, dispose of static mixer.
4. Without a static mixer, dispense material on a mixing surface or container, and thoroughly mix parts A and B together.
5. To stop the flow, pull back on the plunger.
6. Clean nozzle to prevent contamination and material buildup.
7. Replace the cap on the cartridge.

Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 5–10 minutes, cure the gap filler in an oven at 30 minutes @ 70 ˚C.

Storage and Handling

Store between -10 and 40 ˚C in a dry area, away from sunlight (see SDS).

Disclaimer

This information is believed to be accurate. It is intended for professional end users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.