

GF400

Gap Filler

DESCRIPTION

GF400 is a two part, liquid silicone based gap filler, which provides excellent thermal performance and can be cured at room temperature or accelerated with heat. After curing **GF400** forms a low modulus elastomer preventing the 'pump-out phenomenon'.

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Soft and compliant for low stress applications
- Low viscosity; easy to dispense
- High thermal conductivity
- UL approved; UL94 V-0 flame retardancy rating

APPROVALS

| Standard | Status |
|------------------------------|-------------------------|
| RoHS Compliant (2015/863/EU) | Yes |
| UL Approval | UL94 V-0 (File E320832) |

PRODUCT INFORMATION

For available packaging sizes please visit:

electrolube.com

PHYSICAL PROPERTIES

| Category | Results |
|--|--------------------------------------|
| Liquid Properties | |
| Base Material | Silicone |
| Color Part A Part B | Pink White |
| Mixed System Viscosity (mPa s @ 25 °C) | 220 000 |
| Mix Ratio | 1:1 |
| Gel Time (25 °C) | 60 minutes |
| Cure Time 25 °C 60 °C 100 °C | 12 hours 90 minutes 20 minutes |
| Cured System | |
| Color | Pink |
| Current Density (g/mL) | 3.2 |
| Thermal Conductivity (W/m.K) | 4.0 |
| Temperature Range (°C) | -50 to 200 |
| Volume Resistivity (Ω·cm) | 10 ¹⁴ |
| Dielectric Strength (kV/mm) | 9 |
| Weight Loss after 96 hours @ 100 °C | < 0.15% |
| Shore Hardness @ 25 °C | 55 Shore 00 |
| Flame Retardancy | Yes |

APPLICATION GUIDELINES

Ensure surfaces are clean, dry, and free from grease and dust before use. Certain materials like curing agents and plasticisers can inhibit curing of silicone compounds. These chemicals include:

- Organotin and other organometallic compounds.
- Silicone rubber containing organotin catalysts.
- Sulphur and other sulphur containing materials, Amines, urethanes, or amine containing materials.
- Unsaturated hydrocarbon plasticisers.

ADDITIONAL INFORMATION

Cleaning: GF400 can be removed easily up to 1 hour after application with an approved solvent such as IPA.

Storage: Keep lids tightly sealed. Store under ambient conditions.

Shelf Life: 12 Months

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

To confirm this document is the most recent version, please contact
TechnicalSupportTeam@hkw.co.uk
www.electrolube.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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