

## GF300 Gap Filler

GF300 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 GF300 forms a low modulus elastomer preventing the 'pump-out phenomenon'.

- Soft and compliant for low stress applications
- Low viscosity; easy to dispense
- High thermal conductivity
- Low modulus elastomer, prevents 'pump-out'

**Approvals**                      **RoHS Compliant (2015/863/EU):**                      **Yes**

### Typical Properties

|                    |                                       |                  |
|--------------------|---------------------------------------|------------------|
| Liquid Properties: | Base Material                         | Silicone         |
|                    | Colour Part A                         | Blue             |
|                    | Colour Part B                         | White            |
|                    | Mixed System Viscosity (mPa s @ 25°C) | 140 000          |
|                    | Mix Ratio                             | 1:1              |
|                    | Gel Time (25°C)                       | 60 minutes       |
|                    | Cure Time (25 °C)                     | 12 hours         |
|                    | Cure Time (60°C)                      | 80 minutes       |
|                    | Cure Time (100 °C)                    | 15 minutes       |
|                    |                                       |                  |
| Cured System:      | Cured Density (g/ml)                  | 3.0              |
|                    | Thermal Conductivity (W/m.K)          | 3.0              |
|                    | Colour                                | Pale Blue        |
|                    | Temperature Range (°C)                | -50 to 200       |
|                    | Dielectric Strength (kV/mm)           | 11               |
|                    | Volume Resistivity (ohm-cm)           | 10 <sup>14</sup> |
|                    | Shore Hardness @ 25°C                 | 55 Shore 00      |
|                    | Flame Retardancy                      | Meets UL94 V-0   |
|                    | Weight Loss after 96 hours @ 100°C    | < 0.10%          |

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All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

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## **Directions for Use**

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:** GF300 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.

**Health & Safety:** Always refer to the Health & Safety data sheet before use. These can be downloaded from [www.electrolube.com](http://www.electrolube.com)

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