

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
Cured 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

North America 109 Corporate Blvd. South Plainfield, NJ 07080, USA 1.800.367.5460	Europe Ashby Park Coalfield Way Ashby de la Zouch Leicestershire, LE65 1JR, UK 44.01530.41960	Asia 8/F., Paul Y. Centre 51 Hung To Road Kwun Tong, Kowloon, Hong Kong 852.3190.3100
--	---	--

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

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY IS MADE. The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory. Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any noncompliant product at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct, indirect, incidental or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect, incidental and consequential damages that may result from use of the products under such conditions, and agrees to exonerate, indemnify, defend and hold harmless MacDermid, Incorporated and its affiliates therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in a manner that infringes any patent or other intellectual property rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

© 2019 MacDermid, Inc. and its group of companies. All rights reserved. "(R)" and "TM" are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.