

## Product Information

# *Molykote*<sup>®</sup> G-68 Plastic Gear Grease

### FEATURES & BENEFITS

- High water resistance
- Low coefficient of friction
- Good compatibility with most plastics

### COMPOSITION

- Mineral oil
- Polyalphaolefine
- Lithium soap
- EP additives
- Solid lubricants

### APPLICATIONS

- Used in gears of electrical toothbrushes and paper shredders

### TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

| Test*                                                        | Property                                           | Unit               | Result      |
|--------------------------------------------------------------|----------------------------------------------------|--------------------|-------------|
| <b>Penetration, density, viscosity</b>                       |                                                    |                    |             |
| DIN 51 818                                                   | NLGI consistency class                             |                    | 2–3         |
| ISO 2137                                                     | Worked penetration                                 | mm/10              | 250–280     |
| ISO 2811                                                     | Density at 20°C                                    | g/ml               | 0.85        |
| DIN 51 562                                                   | Base oil viscosity at 40°C                         | mm <sup>2</sup> /s | 75          |
| <b>Temperature</b>                                           |                                                    |                    |             |
|                                                              | Service temperature                                | °C                 | -30 to +140 |
| ISO 2176                                                     | Drop point                                         | °C                 | 190         |
| <b>Load-carrying capacity, wear protection, service life</b> |                                                    |                    |             |
|                                                              | Four-ball tester (VKA)                             |                    |             |
| DIN 51 350 T.4                                               | Weld load                                          | N                  | 1,900       |
| DIN 51 350 T.5                                               | Wear scar under 600 N load                         | mm                 | 0.75        |
|                                                              | FAG rolling element bearing tester FE 9            |                    |             |
|                                                              | Almen-Wieland machine, OK load                     | N                  | 18,500      |
|                                                              | Fretting corrosion - Deyber tester                 |                    |             |
| <b>Resistance</b>                                            |                                                    |                    |             |
| DIN 51 808                                                   | Oxidation resistance, pressure drop<br>100 h, 99°C | bar                | 0.1         |
| <b>Corrosion protection</b>                                  |                                                    |                    |             |
| DIN 51 802                                                   | Emcor method                                       |                    | 0           |

\*ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

DIN: Deutsche Industrie Norm

## HOW TO USE

### How to apply

Clean points of contact. Apply in the same way as lubricating greases, using brush, spatula, grease gun or automatic lubricating device. Suitable for delivery by central lubricating system. In the event of long breaks in service, e.g. overnight, the pressure in the delivery equipment should be relieved. Not to be mixed with other greases. Because of variation in quality of plastics and elastomers, compatibility tests should be carried out for swelling and shrinkage, stress crack formation, and changes in strength and hardness.

## HANDLING

### PRECAUTIONS

#### PRODUCT SAFETY

**INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.**

### USABLE LIFE AND STORAGE

When stored at or below 20°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

### PACKAGING INFORMATION

This product is available in 5 kg containers and 25 kg pails.

## TYPICAL PROPERTIES (continued)

| Test*                                  | Property                                             | Unit | Result |
|----------------------------------------|------------------------------------------------------|------|--------|
| <b>Coefficient of friction</b>         |                                                      |      |        |
|                                        | Steel ball against plastic surface (POM)             |      |        |
|                                        | Ø ball = 12.7 mm, load = 6.3 N,<br>v = 10 mm/s, 24 h | μ    | 0.014  |
| <b>Oil separation</b>                  |                                                      |      |        |
| DIN 51 817<br>Fed-Standard<br>791-32-2 | Oil separation - standard test                       | %    | 3.4    |

## LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [dowcorning.com](http://dowcorning.com) or consult your local Dow Corning representative.

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