

MOLYKOTE® G-68 Plastic Gear Grease

Features & benefits

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

Composition

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

Applications

Used in gears of electrical toothbrushes and paper shredders.

How to use

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 SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

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.

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard ⁽¹⁾	Test	Unit	Result
Penetration, density, viscosity			
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 ² /s	75
Temperature			
	Service temperature	°C	-30 to +140
ISO 2176	Drop point	°C	190
Load-carrying capacity, wear protection, service life			
	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		
Resistance			
DIN 51 808	Oxidation resistance, pressure drop 100 h, 99°C	bar	0.1
Corrosion protection			
DIN 51 802	Emcor method		0

⁽¹⁾DIN: Deutsche Industrie Norm. ISO: International Standardization Organization.

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Typical properties (continued)

Standard ⁽¹⁾	Test	Unit	Result
Coefficient of friction			
Steel ball against plastic surface (POM)			
	Ø ball = 12.7 mm, load = 6.3 N, v = 10 mm/s, 24 hrs	μ	0.014
Oil separation			
DIN 51 817 Fed- Standard 791-32-2	Oil separation - standard test	%	3.4

⁽¹⁾DIN: Deutsche Industrie Norm. ISO: International Standardization Organization.

Packaging

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

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