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MOLYKOTE® PG-75 High Performance Grease

Lubricating grease for plastic/plastic and plastic/metal combinations with slow to medium-fast movements and light loads

Features & benefits

- Suitable for long-term lubrication
- Good low-temperature characteristics (usable down to -40°C)
- Very low coefficient of friction
- Compatible with many plastics and elastomers
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Mineral oil
- Polyalphaolefin
- Lithium soap
- Solid lubricants

Applications

MOLYKOTE® PG-75 High Performance Grease is used on vehicle trackrod joints; control cables, gearboxes, worms, planetary gears and other plastic/plastic and plastic/metal contacts in automotive and electrical appliances; and electromechanical actuators such as automotive sun roof tracks, window mechanism and HVAC.

How to use

Clean points of contact. Apply in 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, stresscrack 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.

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
	Color		Beige
Consistency, density, viscosity			
DIN 51 818	NLGI consistency class		Approx. 2
ISO 2137	Worked penetration	mm/10	270-300
ISO 2811	Density at 20°C	g/ml	0.86
DIN 51 562	Base oil viscosity at 40°C	mm^2/s	32
Temperature			
	Service temperature	°C	-40 to +130
ISO 2176	Drop point	°C	>190
ASTM D1478-80	Low-temperature torque test at -30°C		
	Initial break-away torque	Nm	$222x10^{-3}$
	Torque after 20 minutes running time	Nm	$36x10^{-3}$
DIN 51 805	Kesternich method – flow pressure at -20°C	mbar	280
Load-carrying capacity, wear protection, service life			
	Four-ball tester (VKA)		
DIN 51 350 pt.4	Weld Load	N	1,300
DIN 51 350 pt.5	Wear scar under 400 N load	mm	0.8

(1)DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials. CTM: Corporate Test Method; copies of CTMs are available on request.

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Typical properties (continued)

Standard[1]	Test	Unit	Result
Coefficient of friction			
	Steel ball against plastic surface (POM) dia. (ball) = 12.7 mm; load = 5 N; v = 10 cm/s, 24 hours, μ=		0.02
Corrosion protection			
DIN 51 802	Degree of corrosion		1-2
Oil separation - evaporation			
DIN 51 817	Standard test	%	4.8
CTM 0033A	Oil bleeding, 24 hours, 100°C	%	3.3
CTM 0033A	Oil evaporation, 24 hours, 100°C	%	0.0

[1]DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials. CTM: Corporate Test Method; copies of CTMs are available on request.

Usable life and storage

When stored at or below 35°C in the original, unopened, containers, this product has a usable life of 60 months from the date of production.

Packaging

This product is available in different standard container sizes as shown on **molykote.com**. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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