MOLYKOTE® MI-60 Grease

Synthetic lithium-soap-based grease with solid lubricants

Features

- Good low-temperature characteristics
- Good plastic compatibility
- Low coefficient of friction
- Contains no silicone oil

Composition

- Polyalphaolefin
- Lithium soap
- Solid lubricants

Applications

Special grease for plastic-to-plastic and plastic-to-metal pairings at low to moderate speeds and moderate to high loads (e.g., safety steering wheels).

How to use

Clean contact points. Apply with brush, spatula, grease gun or automatic lubrication device, as is normally the case with lubricant greases. Can be used in centralized lubrication systems. During long interruptions (e.g., overnight), release pressure from the lubrication system. Do not mix with other greases. Because of the different plastic grades, compatibility tests for swelling and shrinkage, stress cracking, changes in strength and hardness should be carried out.

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 36 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
	Color		Yellow
Consistency, density, viscosity			
DIN 51 818	Consistency class, NLGI		1-2
ISO 2137	Worked penetration	mm/10	285-315
ISO 2811	Density at 20°C	g/ml	0.9
DIN 51 562	Base oil viscosity at 40°C	mm²/s	29
Temperature			
	Service temperature range	°C	-50 to +150
ISO 2176	Drop point	°C	200
ASTM D147880	Low-temperature torque test at -40°C		
	Starting torque	Nm	112×10^{-3}
	Torque after 20 minutes running time	Nm	59×10^{-3}
Load-carrying capacity, wear protection, service life			
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	4,600
DIN 51 350 pt.5	Wear scar at 400 N load	mm	0.4
Coefficient of friction			
	Steel ball against plastic surface (POM) μ=[2]		0.03
Resistance			
DIN 51 808	Oxidation resistance, pressure drop 100 h, 99°C	bar	0.05

[1]DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.
[2]Ø/ball = 12.7 mm, load = 6.3 N, v = 10 mm/s, 24 h.

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Typical properties (continued)

Standard[1]	Test	Unit	Result
Corrosion protection			
DIN 51 802	SKF-Emcor method Degree of corrosion		0
Oil separation			
DIN 51 817	Standard test	%	4.1

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Packaging

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

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