MOLYKOTE® PG 21 Silicone Grease

High performance grease for plastic/plastic and plastic/metal combinations involving slow to medium-fast movements and light to medium loadings

Features

- High oxidation resistance
- Wide service-temperature range: -50°C/-58°F to 190°C/374°F
- High water resistance
- Excellent corrosion protection
- Compatible with many plastics and elastomers

Composition

- Silicone oil
- Lithium complex thickener

Applications

Suitable for friction contacts with low to medium loadings and speeds that have to remain serviceable through a wide temperature range. Used on control cables, water pumps, bearing bushes, gearwheels, slideways and other plastic parts in domestic appliances, toys and electrical appliances.

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, 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.

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[2]
	Color		White
Consistency, density, viscosity			
DIN 51 818	NLGI consistency class		2
ISO 2137	Worked penetration	mm/10	265-295
ISO 2811	Density at 20°C (68°F)	g/ml	0.96
DIN 51 562	Base oil viscosity at 25°C (77°F)	mm^2/s	200
Temperature			
	Service temperature	°C	-50 to +190
		°F	-58 to 374
ISO 2176	Drop point	°C	250
		°F	482
ASTM D147880	Low-temperature torque test at -20°C (-4°F)		
	Initial break-away torque	Nm	$39x10^{-3}$
	Torque after 20 minutes running time	Nm	$15x10^{-3}$
DIN 51 805	Kesternich method - flow pressure at -20°C (-4°F)	mbar	210
Load-carrying capacity, wear protection, service life			
	Four-ball tester (VKA)		
DIN 51 350 pt.4	Weld load	N	1,600
Resistance			
DIN 51 808	Oxidation resistance, pressure drop 100 h, 99°C (210.2°F)	bar	0.1

[1]DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.
[2]All values after evaporation of solvent.

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Typical properties (continued)

Standard[1]	Test	Unit	Result[2]
Corrosion protection			
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0
Oil separation			
DIN 51 817	Standard test	%	4.5

[1]DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.
[2]All values after evaporation of solvent.

Usable life and storage

When stored at or below 20°C (68°F) 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. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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