Molykote® PG-54 Silicone Grease

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

Features

- High oxidation resistance
- Low evaporation
- Wide service temperature range, -50 to +180 °C (-58°F to 356°F)
- Good low-temperature performance
- Low coefficient of friction
- Good corrosion protection
- Excellent compatibility with most plastics and rubbers

COMPOSITION

- Silicone base oil
- Lithium complex thickener
- EP additives
- Solid lubricants

Applications

Especially suited for the low-friction operation of most rubber or plastic parts, such as bearing bushings, gears and chains; sealing rings, sliding tracks and switches; and flexible control cables, which are typically found in Bowden cable control systems, electric motors and gearboxes, household and garden appliances, automotive brake systems, and automotive clutch systems.

Description

MOLYKOTE® PG-54 Plastislip is a special silicone-oil-based grease with a wide temperature range and good high-pressure and corrosion protection properties. It is designed for the long-term lubrication of metal/plastic, plastic/plastic and reinforced rubber/oil-resistant and non-oil-resistant combinations with high softener content.

How to use

Apply to clean, dry substrates using conventional grease application methods (e.g., brush, grease gun or automatic feed).

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*	Test	Unit	Result
	Color		White
Consistency, density, viscosity			
DIN 51818	NLGI consistency class		2-3
ISO 2137	Worked penetration	mm/10	245-275
ISO 2811	Density at 20°C (68°F)	g/ml	1.02
DIN 51562	Base oil viscosity at 25°C (77°F)	mm^2/s	200
Temperature			
	Service temperature	°C	-50 to +180
		°F	-58 to + 356
ISO 2176	Dropping point	°C	>250
		°F	>482
ASTM D147880	Low temperature torque at –50°C (-58°F)		
	Initial breakaway torque	Nm	$<120x10^{-3}$
	Torque after 20 minutes running time	Nm	$<90x10^{-3}$
DIN 51805	Kesternich method Flow pressure at -50°C	mbar	<800
Resistance, Corrosion			
DIN 51808	Oxidation resistance, pressure drop after 100h and 99°C	bar	0.1
DIN 51802	SKF-EMCOR corrosion protection		0-1
Coefficient of friction			
	Steel ball against plastic surface (POM) ∅ ball = 12.7 mm, load 0 6.3N, v = 10 mm/s, running time 24h	µ	<0.04

* DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.

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 between 0°C and 40°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

Packaging

MOLYKOTE® PG-54 Plastislip is supplied in 25 kg (55 lb) open-top pails and 180 kg (396 lb) drums.

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