

# 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                 |
| <b>Consistency, density, viscosity</b> |   |                    |                       |
| 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 <sup>2</sup> /s | 200                   |
| <b>Temperature</b>                     |   |                    |                       |
|  | 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 <sup>-3</sup> |
|  | Torque after 20 minutes running time  | Nm                 | <90x10 <sup>-3</sup>  |
| DIN 51805                              | Kesternich method<br>Flow pressure at -50°C   | mbar               | <800                  |
| <b>Resistance, Corrosion</b>           |   |                    |                       |
| DIN 51808                              | Oxidation resistance, pressure drop after 100h and 99°C   | bar                | 0.1                   |
| DIN 51802                              | SKF-EMCOR corrosion protection  |                    | 0-1                   |
| <b>Coefficient of friction</b>         |   |                    |                       |
|  | Steel ball against plastic surface (POM)<br>Ø ball = 12.7 mm, load 0<br>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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