

# 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 <sup>(1)</sup>                                      | Test                                                      | Unit               | Result <sup>(2)</sup> |
|--------------------------------------------------------------|-----------------------------------------------------------|--------------------|-----------------------|
|                                                              | Color                                                     |                    | White                 |
| <b>Consistency, density, viscosity</b>                       |                                                           |                    |                       |
| 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 <sup>2</sup> /s | 200                   |
| <b>Temperature</b>                                           |                                                           |                    |                       |
|                                                              | 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 <sup>-3</sup>   |
|                                                              | Torque after 20 minutes running time                      | Nm                 | 15x10 <sup>-3</sup>   |
| DIN 51 805                                                   | Kesternich method - flow pressure at -20°C (-4°F)         | mbar               | 210                   |
| <b>Load-carrying capacity, wear protection, service life</b> |                                                           |                    |                       |
|                                                              | Four-ball tester (VKA)                                    |                    |                       |
| DIN 51 350 pt.4                                              | Weld load                                                 | N                  | 1,600                 |
| <b>Resistance</b>                                            |                                                           |                    |                       |
| DIN 51 808                                                   | Oxidation resistance, pressure drop 100 h, 99°C (210.2°F) | bar                | 0.1                   |

<sup>(1)</sup>DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.

<sup>(2)</sup>All values after evaporation of solvent.

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## Typical properties (continued)

| Standard <sup>(1)</sup>     | Test                | Unit | Result <sup>(2)</sup> |
|-----------------------------|---------------------|------|-----------------------|
| <b>Corrosion protection</b> |                     |      |                       |
| DIN 51 802                  | SKF-Emcor method    |      |                       |
|                             | Degree of corrosion |      | 0                     |
| <b>Oil separation</b>       |                     |      |                       |
| DIN 51 817                  | Standard test       | %    | 4.5                   |

<sup>(1)</sup>DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.

<sup>(2)</sup>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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