

Specialty Lubricants

MOLYKOTE® PPE Solid lubricant paste

Light-colored, solid lubricant paste

FEATURES

- Low coefficient of friction
- High load-carrying capacity
- Compatible with most plastics
- No drop point, hence no melting or leakage from the lubrication point
- Effective long-term lubrication, since it is very resistant to oxidation, and has little tendency to volatilize
- Good low-temperature properties

COMPOSITION

- Polyalphaolefine
- Organic thickener
- EP additive
- Solid lubricants

APPLICATIONS

- For the long-term and permanent lubrication of metal/plastic and plastic/plastic combinations.
- Suitable for sliding bearings and sliding surfaces that are subject to high compressive loads made of dry metal/metal and plastic/plastic combinations, and also combinations of metal and oil-resistant rubber. The paste is particularly suitable for components made of fiberglass-reinforced plastic.
- Used successfully for automatically operated car aerials, vehicle seat adjusters, switches, ski attachments and furniture hinges. Also for sliding bearings, bushes and toothed gears in domestic appliances.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

Standard*	Test	Unit	Result
	Color		Yellow
	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	1.20
DIN 51 562	Base oil viscosity at 40°C (104°F)	mm ² /s	18
	Temperature		
	Service temperature	°C	-50 to 160
		°F	-58 to 320
ISO 2176	Drop point	°C	>280
		°F	>536
ASTM-D147880	Low temperature torque test at -40°C (-40°F)		
	Initial break-away torque	Nm	200x10 ⁻³
	Torque after 20 minutes running time	Nm	82x10 ⁻³
	Load-carrying capacity, wear protection, service life		
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	4800
DIN 51 350 pt.5	Wear scar under 400N load	mm	0.5
	Almen-Wieland machine		
	OK load	N	>20000
	Frictional force	N	1200
	Coefficient of friction		
	Steel ball against plastic surface (POM) ¹		0.04

TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
Resistance			
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C (210°F)	bar	0.05
Oil separation - evaporation			
DIN 51 817	Standard test	%	1.4

1. Diameter of ball = 12.7mm, load = 6.3N, v = 10mm/s, 24h.

* ASTM: American Society for Testing and Materials.

ISO: International Standardisation Organisation.

DIN: Deutsche Industrie Norm.

HOW TO USE

How to apply

Apply to the clean contact areas using a brush, lint-free cloth or grease gun.

Do not mix with other pastes or greases. Because of the different qualities of plastics and elastomers, compatibility tests for swelling and shrinking, stress crack formation, changes in strength and hardness should be carried out.

HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

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 Dow Corning sales office or Dow Corning distributor.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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