

MOLYKOTE® PPE SOLID LUBRICANT PASTE

Light-coloured, solid lubricant paste

FEATURES

- ◆ Low coefficient of friction
- ◆ High load-bearing 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 fibreglass-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

Specifications writers: These values are not intended for use in preparing specifications. Please contact Dow Corning GmbH, Wiesbaden, Germany before writing specifications on this product.

Standard	Test	Unit	Result
	Colour		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	g/ml	1.20
DIN 51 562	Base oil viscosity at 40°C	mm ² /s	18
	Temperature		
	Service temperature	°C	-50 to 160
ISO 2176	Drop point	°C	>280°C
ASTM-D147880	Low temperature torque test at -40°C		
	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
	Resistance		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.05

TYPICAL PROPERTIES (continued)

Standard	Test	Unit	Result
	Oil separation - evaporation		
DIN 51 817	Standard test	%	1.4

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

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

A Product Safety Data Sheet should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

USABLE LIFE AND STORAGE

When stored at or below 20°C in the original unopened containers this product has a usable life of 60 months from the date of production.

Dow Corning will guarantee the usable life of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4 digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

PACKAGING INFORMATION

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

Dow Corning's Health, Environment and Regulatory Affairs (HERA)

Department is available to support customers for their product safety needs. For further information, you can contact this group at:

Dow Corning Europe
HERA Department
Rue Général de Gaulle, 62
B-1310 La Hulpe
Belgium
TEL:
Int +32 (0)2 655 2523
Int +32 (0)2 655 2304
FAX:
Int +32 (0)2 655 2013

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**UNITED KINGDOM, NORDIC COUNTRIES,
BENELUX, SOUTH AFRICA, EIRE & MIDDLE EAST**

Dow Corning
UNITED KINGDOM
Tel: INT + 44 (0)1 676 52 80 00
Fax: INT + 44 (0)1 676 52 80 01

POLAND

Dow Corning Polska Sp. zo.o.
Tel: INT + 48 (0)22 645 14 45
Fax: INT + 48 (0)22 645 14 40

**AUSTRIA, GERMANY, SWITZERLAND &
EASTERN EUROPE**

Dow Corning GmbH
GERMANY
Tel: INT + 49 (0)611 - 23 71
Fax: INT + 49 (0)611 - 237 610

SPAIN & PORTUGAL

Dow Corning Ibérica S.A.
SPAIN
Tel: INT + 34 (0)93 - 405 12 15
Fax: INT + 34 (0)93 - 405 38 94

**ITALY & EASTERN MEDITERRANEAN
COUNTRIES**

Dow Corning S.p.A.
ITALY
Tel: INT + 39 039 - 60 711
Fax: INT + 39 039 - 68 99 660

FRANCE & NORTH AFRICA

Dow Corning France S.A.
FRANCE
Tel: INT + 33 (0)4 72 84 13 60
Fax: INT + 33 (0)4 72 84 13 79

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