

MOLYKOTE® YM-102 GREASE WITH SOLID LUBRICANTS

Synthetic lithium soap-based grease

FEATURES

- ◆ Broad service temperature range
- ◆ Good plastic compatibility
- ◆ High load carrying capacity
- ◆ Low coefficient of friction
- ◆ Free from molybdenum disulphide

COMPOSITION

- ◆ Polyalphaolefin
- ◆ Lithium soap
- ◆ Solid lubricants

APPLICATION

- ◆ Heavy duty grease for plastic-to-plastic and plastic-to-metal pairs at low to moderate speeds to high loads (e.g. highly stressed plastic gears in cars and in audio-video units).

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	Units	Result
	Colour		Yellow
	Consistency, density, viscosity		
DIN 51 818	Consistency class, NLGI		1-2
ISO 2137	Worked penetration	mm/10	285-315
ISO 2811	Density at 20°C	g/ml	0.88
DIN 51 562	Base oil viscosity at 40°C	mm ² /s	29
	Temperature		
	Service temperature range	°C	-50 to +150
ISO 2176	Drop point	°C	202
ASTM-D147880	Low temperature torque test at -40°C		
	Starting torque	Nm	112x10 ⁻³
	Torque after 20 minutes running time	Nm	59x10 ⁻³
	Load-carrying capacity, wear protection, service life		
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	5500
DIN 51 350 pt.5	Wear scar at 400N load	mm	0.4
	Coefficient of friction		
	Steel ball against plastic surface (POM) ¹		0.03
	Resistance		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.05
	Corrosion protection		
DIN 51 802	SKF-Emcors method		
	Degree of corrosion		0
	Oil separation		
DIN 51 817	Standard test	%	4.1

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

* ASTM: American Society for Testing and Materials

ISO: International Standardisation Organisation

DIN: Deutsche Industrie Norm

HOW TO USE

How to apply

Clean contact points. Apply with brush, spatula, grease gun or automatic lubrication device, as is normally the case with lubricant greases. Can be used in centralized lubrication systems. During long interruptions, for example, overnight, release pressure from the lubrication system. Do not mix with other greases. Because of the different plastic grades, compatibility tests for swelling and shrinkage, stress cracking, 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 36 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:

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