

**Product Information**  
**Specialty**  
**Lubricants**



**MOLYKOTE® YM-102**  
**Grease with solid lubricants**

**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

**Synthetic lithium soap-based grease**

**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**

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
	<b>Consistency, density, viscosity</b>		
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 <sup>2</sup> /s	29
	<b>Temperature</b>		
	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 <sup>as</sup>
	Torque after 20 minutes running time	Nm	59x10 <sup>as</sup>
	<b>Load-carrying capacity, wear protection, service life</b>		
	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
	<b>Coefficient of friction</b>		
	Steel ball against plastic surface (POM) <sup>1</sup>		0.03
	<b>Resistance</b>		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.05
	<b>Corrosion protection</b>		
DIN 51 802	SKF-Emcors method		
	Degree of corrosion		0
	<b>Oil separation</b>		
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**

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 SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

## **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.

## **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 Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

## **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. Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. 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. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.