MOLYKOTE® YM-103 Grease

Lubricating grease developed for plastic components

Features

- Compatible with most plastics
- Good load-carrying capability and wear resistance
- Long service life
- Low seepage, so it can be used in places wherein cleanliness is required

Composition

- Polyalphaolefin
- Lithium soap
- Special solid lubricants

Applications

Automobiles, electrical appliances, precision equipment, and office equipment. Can be used with plastic-on-plastic, metal-on-metal, or plastic-on-metal friction parts.

How to use

Clean points of application. As is usual with lubricating greases, apply or fill by means of a brush, spatula, or automatic lubrication device.

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.

Usable life and storage

When stored, unopened, in a cool, dark place, this product has a usable life of 36 months from the date of production.

Packaging

This product is available in 1 kg cans (10 cans/case) and 16 kg pails.

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(1)	Test	Unit	Result
	Appearance		Yellow
	Base oil viscosity at 40ºC	mm²/s	29
JIS K 2220	Penetration (worked 60 times)		300
	NLGI class		1 to 2
	Service temperature range	°C	-45 to 150
	Density	g/cm³	0.90
JIS K 2220	Drop point	°C	195
JIS K 2220	Bleed (100ºC/24 hours)	%	3.0
JIS K 2220	Evaporation (99ºC/22 hours)	%	0.2
JIS K 2220	Oxidation resistance (99ºC/100 hours)	MPa	0.02
JIS K 2220	Copper corrosion (100ºC/24 hours)		1a
ASTM D2596	Four ball weld load (1,500 rpm/1 minute)	N	5,200
ASTM D2266	Four ball wear scar (1,200 rpm, 392 N, 1 hour)	mm	0.40
JIS K 2220	Low temperature torque test (-40ºC)		
	Starting torque	mN.m	93
	Running torque	mN.m	49

(1)JIS: Japanese Industrial Standard. ASTM: American Society for Testing and Materials.

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