



MOLYKOTE[®] EM-50L Grease

Lubricating grease developed for plastic components

Features

- Compatible with most plastics
- Effective in reducing noise from plastic gears
- Long service life
- Low seepage, so it can be used in places wherein cleanliness is required
- Does not contain silicone, thereby preventing problems with contact point failures
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Polyalphaolefin
- Lithium soap

Applications

Automobiles, electrical appliances, precision equipment, audio equipment, and office equipment with plastic parts. Used as a damper grease to reduce noise in moving parts, such as gears.

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 different standard container sizes as shown on molykote.com. Detailed container size information should be obtained from your nearest MOLYKOTE[®] sales office or MOLYKOTE[®] distributor.

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		Translucent, white
	Base oil viscosity at 40°C	mm ² /s	1,050
JIS K 2220	Penetration (worked 60 times)		325
	NLGI class		1
	Service temperature range	°C	-40 to 150
	Density	g/cm ³	0.84
JIS K 2220	Drop point	°C	195
JIS K 2220	Bleed (100°C, 24 hours)	%	2.5
JIS K 2220	Evaporation (99°C, 22 hours)	%	0.2
JIS K 2220	Oxidation resistance (99°C, 100 hours)	MPa	0.02
JIS K 2220	Copper corrosion (100°C, 24 hours)		1A
ASTM D2596	Four ball weld load (1,500 rpm/1 minute)	N	1,400
ASTM D2266	Four ball wear scar (1,200 rpm, 392 N, 1 hour)	mm	0.71
JIS K 2220	Low temperature torque test (-40°C)		
	Starting torque	mNm	290
	Running torque	mNm	140

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

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