Product Information

High Performance Lubricants

DOW CORNING

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

COMPOSITION

- Poly-α-olefin
- Lithium soap

APPLICATIONS

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

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*	Parameter	Unit	Value
	Appearance		Translucent white
	Base oil viscosity at 40ºC	mm^2/s	1050
JIS K 2220	Penetration (worked 60 times)	mm/10	325
	NLGI class		1
	Service temperature range	ºC	-40 to 150
	Density	g/cm^3	0.84
JIS K 2220	Drop point	ºC	195
JIS K 2220	Bleed (100ºC 24 hours)	%	2.5
JIS K 2220	Evaporation (99ºC 22 hours)	%	0.3
JIS K 2220	Oxidation resistance (99ºC 100 hours)	MPa	0.02
JIS K 2220	Copper corrosion (100ºC 24 hours)		1a
ASTM D 2596	Four ball weld load (1500rpm/1minute)	N	1400
ASTM D 2266	Four ball wear scar (1200rpm, 392N, 1 hour)	mm	0.71
JIS K 2220	Low temperature torque test (-40ºC)		
	Starting torque	Ncm	29.4
	Running torque	Ncm	13.7

*JIS: Japanese Industrial Standard.
ASTM: American Society for Testing and Materials.

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

This product may irritate the skin or eyes. Wear safety equipment as necessary when handling this product. In the event of contact with skin or eyes, immediately rinse thoroughly with water and seek medical care if necessary. Wash hands thoroughly after handling.

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 1kg cans (10 cans/case) and 16kg pails.

CAUTION

1. Data included in this document are average values, not specification values. Any applications for this product given in this document are merely examples. Perform thorough evaluations to confirm functionality, effectiveness, and safety before use.
2. No guarantees are made that the applications described in this document are free from infringements of any patent.
3. This product was developed for industrial use, and is not intended for use in medical equipment, pharmaceutical products, etc.
4. Be sure to read the material safety data sheet (MSDS) and container label for this product before use.
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