

EMPL

Electro-Mechanical Plastics Lubricant

DESCRIPTION

EMPL is a non-melting grease with good mechanical lubrication properties, good electrical characteristics, excellent plastics compatibility, and a wide operating temperature range. **EMPL** has been specifically designed for use as an assembly grease, where migration onto electrical contacts is possible. **EMPL** has been developed to remove the problem of stress cracking caused by the interaction of other lubricants with thermo-plastics under stress.

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Low contact resistance; suitable for use on most types of wiping, sliding and non-arcing contacts
- Excellent plastics compatibility; suitable with Noryl/PC/Polystyrene, testing is always advised
- Wide operating temperature range; ideal for use as an assembly grease in a wide range of applications
- Excellent anti-wear characteristics; eliminates issues with stress cracking

APPROVALS

Standard	Status
RoHS Compliant (2015/863/EU)	Yes

PRODUCT INFORMATION

For available packaging sizes please visit:

electrolube.com

PHYSICAL PROPERTIES

Category	Results
Typical Properties	
Color	Light Brown Grease
Temperature Range (°C)	-20 to 200
Thermal Conductivity (cal/cm/sec/°C)	4.0 x 10 ⁻⁴
Water Content (%)	<0.2
Drop Point (ASTM D566)	>250 °C
Cone Penetration Worked (ASTM D217, 60 Strokes @ 25 °C)	270 to 300
Cone Penetration Un-Worked (ASTM D 217 @ 25 °C)	260 to 290
Evaporation Weight Loss (Method 0 ASTM D972)	
500 hours @ 50 °C	0.55%
500 hours @ 100 °C	1.57%
500 hours @ 150 °C	3.65%
24 hours @ 200 °C	2.45%

APPLICATION GUIDELINES

Before final treatment with our lubricants, contact surfaces should be clean and dry. For general removal of dirt, our ULS is recommended. Hardened dirt and tarnish, especially on larger contacts, should be removed by rubbing with an abrasive material, which can be impregnated with the lubricant to be used.

After cleaning non-wiping contacts, loosened tarnish should be removed before a final application of lubricant is made. Contact Cleaning Strips (CCS) are recommended for this purpose. With wiping contacts, loosened tarnish will be pushed aside. This can be removed if desired, but is usually not necessary, due to the excellent lubricating and protective properties of the contact lubricant.

EMPL can be applied by one of the following methods (although this list is not exhaustive):

Manually by way of a syringe

Semi-automated using syringe dispensing equipment

Fully automated by way of a follower/pusher plate with dispensing system.

TYPICAL PRODUCT APPLICATION

EMPL has been specifically designed for use as an assembly grease, where migration onto electrical contacts is possible. EMPL has been developed to remove the problem of stress cracking caused by the interaction of other lubricants with thermo-plastics under stress.

ADDITIONAL INFORMATION

Shelf Life: 36 Months

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

To confirm this document is the most recent version, please contact

TechnicalSupportTeam@hkw.co.uk

www.electrolube.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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