POLYLUB GLY 151, 501, 801

Special synthetic lubricating greases for a wide application range

Your benefits at a glance

- For many applications in connection with various plastics and elastomers
- Approved by many renowned manufacturers and suppliers in the automotive industry, e.g. DBL 6827.60, VW TL 52147, Brose Fettgruppe 11 and many more
- The integrated UV indicator allows a reliable lubricant detection (wave length 366 nm) even with minimum quantity lubrication
- Contributes to mechanical damping and noise reduction of switches and contacts.

Your requirements - our solution

The product series POLYLUB GLY 151, 501, 801 is based on a synthetic hydrocarbon oil, mineral oil and special lithium soap. It comprises three lubricating greases reducing friction and wear in plain bearings, slideways and small gears made of plastic.

The lubrication of plastics is special in a number of ways. As the behaviour of metals and plastics differs in many aspects, the lubricants' properties have to be adjusted to the plastic. Compared to many metals, plastics are relatively soft. Solid lubricants, which may achieve a positive effect on many metal friction points, can have a negative or no effect at all on plastic lube points. With the formulation of POLYLUB GLY 151, 501, 801, Klüber Lubrication offers products which are free of solid lubricants, and offer good adhesion.

Application

Vehicles
Gearshift linkages, moving parts of the heating and ventilation system, shock absorber seals, tie rod elements, seat mechanisms, sun roof guides, pedals.

Plain bearings
Many types of plain bearing designs. POLYLUB GLY 151, 501, 801 prevent stick-slip to a large extent, particularly in applications where normally a hydrodynamic lubricating film cannot form.

Gears
Small electric gears with plastic-metal friction components, manual gears operating at very low sliding speeds.

Pneumatic installations
Pneumatic valves and cylinders with and without piston rod (for these applications, the upper service temperature should not exceed 130 °C).

Seals
Lubricating and sealing grease for various types of seals. The POLYLUB GLY 151, 501 and 801 lubricants are also suitable for many other plastic components subject to wear caused by relative movement against metal or plastic surfaces. Owing to good damping properties, especially of POLYLUB GLY 801 and 501, noise is considerably reduced.

Application notes

POLYLUB GLY 151, 501 and 801 are applied by brush, spatula or automatic metering systems.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	POLYLUB GLY 151	POLYLUB GLY 501	POLYLUB GLY 801
Can 500 g			+
Can 1 kg	+	+	+

KLÜBER LUBRICATION

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Bucket 5 kg			+
Bucket 25 kg	+	+	+
Bucket 45 kg			+
Bucket 50 kg	+		+
Drum 170 kg	+		
Drum 180 kg		+	+
Container 800 kg	+		+

Characteristics	POLYLUB GLY 151	POLYLUB GLY 501	POLYLUB GLY 801
Article number	020235	020285	020199
Chemical composition, type of oil	mineral oil	mineral oil	mineral oil
Lower service temperature	-50 °C	-40 °C	-40 °C
Upper service temperature	150 °C	150 °C	130 °C
Colour space	beige	beige	beige
Chemical composition, thickener	special lithium soap	special lithium soap	special lithium soap
NLGI grade, DIN 51818	1	1	1
Chemical composition	UV additive	UV additive	UV additive
Shear viscosity at 25 °C, shear rate 300 s-1, equipment: rotational viscometer, lower limit value	1800 mPas	3000 mPas	4000 mPas
Shear viscosity at 25°C, shear rate 300 s-1, equipment:rotational viscometer, upper limit value	3000 mPas	5000 mPas	8000 mPas
Density at 20 °C	ca. 0,85 g/cm³	ca. 0,88 g/cm³	ca. 0,88 g/cm³
Drop point, DIN ISO 2176, IP 396	>= 250 °C	>= 250 °C	>= 250 °C
Oxidation stability of lubricating greases, ASTM D942, 100 h/99 °C, pressure drop	<= 0,3 bar	<= 0,3 bar	<= 0,3 bar
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	ca. 150 mm²/s	ca. 500 mm²/s	ca. 730 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	ca. 18,5 mm²/s	ca. 40 mm²/s	ca. 60 mm²/s
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90	<= 1 - 90	<= 1 - 90
Oil separation, ASTM D 6184 [FTMS 791 C 321], after 30 h/100 °C	<= 6 % by weight	<= 4 % by weight	<= 4 % by weight
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree	<= 1 corrosion degree	<= 1 corrosion degree
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	36 months	36 months

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Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

Klüber Lubrication München GmbH & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.

The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.