

Klüberplex RA 41-151

Special grease for automotive applications where smell is to be avoided



Your benefits at a glance

- No undesirable smells - approval acc. to BMW GS907014 and VDA 270
- Reliable detection of minimum grease quantities by UV indicator
- Enables mechanical (haptic) damping and noise reduction
- For use with several types of plastic and elastomer

Your requirements - our solution

For you as a manufacturer of car interior components, the reduction of odorous emissions is becoming ever more of an issue. Lubricants supporting the optimum function of your components play an important role in this respect.

We have therefore optimised the olfactory characteristics of Klüberplex RA 41-151 and designed it to reduce friction and wear in plain bearings, guide rails, mechanisms and actuators made of plastic and/or metal.

Furthermore, some special factors should be considered when lubricating plastic components. Since metal and plastic show different behaviour in several decisive ways, any lubricant to be used with plastics has to be adjusted accordingly. Compared with metal, plastics are rather soft. Solid lubricants have a positive effect in many metal friction points; on plastic surfaces, by contrast, their effect may be non-existent or even detrimental. Klüber Lubrication developed Klüberplex RA 41-151, which is free of solid lubricants and offers good adhesion.

Application

Sliding roof: guide rails, kinematics

Gear shift: selector gate and ball socket

HVAC: heating and ventilation control

Seat adjustment mechanisms: tracks and seat rails

Dashboard: switches and levers

Pedal box: plain bearings

Application notes

Klüberplex RA 41-151 can be applied by brush, spatula, grease gun or automatic lubricant dispensers.

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 | Klüberplex RA 41-151 |
|-----------------|----------------------|
| Can 1 kg | + |
| Bucket 25 kg | + |
| Bucket 50 kg | + |
| Drum 170 kg | + |
| Characteristics | Klüberplex RA 41-151 |
| Article number | 020365 |

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| Characteristics | Klüberplex RA 41-151 |
|---|---|
| Composition, thickener | lithium complex soap |
| Composition, type of oil | mineral oil , synthetic hydrocarbon oil |
| Colour space | beige |
| Odour, VDA 270, based on standard, 2 h, 100°C | ≤ 3 |
| Service temperature, lower limit | -50 °C |
| Service temperature, upper limit | 130 °C |
| Density, Klüber method: PN 024, 20°C | approx. 0.85 g/cm ³ |
| UV control, wave length: 366 nm | according to reference |
| Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit | 310 0.1 mm |
| Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit | 340 0.1 mm |
| Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , lower limit | 1800 mPas |
| Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , upper limit | 3000 mPas |
| Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C | approx. 18.5 mm ² /s |
| Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C | approx. 150 mm ² /s |
| Flow pressure, DIN 51805-2, -50°C | ≤ 1400 mbar |
| Dropping point, DIN ISO 2176 / IP 396 | ≥ 250 °C |
| Water resistance, DIN 51807-1, 3 h, 90°C | ≤ 1 - 90 rating |
| Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. | 36 months |

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.

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