# Mobil Rarus™ PE KPL 201

Mobil Industrial , South Korea

Ethylene and co-monomers compressor oil

## Product Description

Mobil Rarus™ PE KPL 201 is a medium viscosity, colourless oil, of viscosity slightly above ISO VG 100. It is based on high purity, saturated hydrocarbon oils, supplemented with friction-reducing and free-radical trap additives at adapted treat levels

## Features and Benefits

- Low reactivity components. Do not interfere with polymerisation reactions.
- High purity components. Do not induce any discolouration or odour in the final polymer.
- Components approved for food contact. Suitable for the manufacture of polymers for food packaging containers.
- Reduced maintenance shutdowns
- Low polarity. Suitable in the manufacture of polymers for electrical insulation and thin sheets (plastic bags).

## Applications

Mobil Rarus PE KPL 201 is specifically designed for the lubrication of very high pressure ethylene and co-monomers compressors. It may be used up to 3400 bars, according to oil injection system and temperature.

Mobil Rarus PE KPL 201 is formulated for the most demanding applications. Its viscosity and composition are tailored for the highest pressures found in ethylene compressors for LDPE production. The viscosity increase under the highest pressures remains low enough to ensure an adequate flow of lubricating oil.

Additives also prevent the early polymerisation of reactive gas components and impurities into the compressor itself, which may lead to formation of sludge, and eventually to lubrication failure. Additives also mitigate friction losses and bushing wear. As a result shutdowns for maintenance are less frequent.

### Specifications and Approvals

| This product is registered to the requirements of: |
|---|
| NSF H1 146247 |

| This product meets or exceeds the requirements of: |
|---|
| FDA 21 CFR 178.3570 |
| FDA 21 CFR 177.1520 |
| US Pharmacopeia <661> (vol. 1, 2008) |
| European Regulation (EU) 2015/174 |
| Burckhardt VSB 1001180 |

### Properties and Specifications

| Property | |
|---|---|
| Density @ 15 C, kg/l, ASTM D4052 | 874 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 230 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 117 |
| Pour Point, °C, ASTM D97 | -12 |
| Saybolt Color, ASTM D156 | +27 |
| Total Acid Number, mgKOH/g, ASTM D664 | 0.5 |
| Water Content, max ppm, ASTM D6304 | 100 |

## Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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