



## Mobil Rarus™ PE KPL 201

Mobil Industrial , Thailand

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

<b>This product is registered to the requirements of:</b>
NSF H1 146247

<b>This product meets or exceeds the requirements of:</b>
FDA 21 CFR 178.3570
US Pharmacopeia <661> (vol. 1, 2008)
Burckhardt VSB 1001180

### Properties and Specifications

<b>Property</b>	
Density @ 15 C, kg/l, ASTM D4052	874

Property	
Flash Point, Cleveland Open Cup, °C, ASTM D92	230
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /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>

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

06-2024

ExxonMobil Marketing (Thailand) Limited

3195/26, 22nd Floor, Rama IV Road

Klong Ton, Klong Toey District

Bangkok 10110

Thailand

+66 2 407 4000

<http://www.exxonmobil.com>

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](http://www.exxonmobil.com)

ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

**ExxonMobil**

Exxon Mobil Esso XTO ENERGY

© Copyright 2003-2025 Exxon Mobil Corporation. All Rights Reserved