



kuraray

Higher efficiency for Higher performance

Kuraray
Elastomers
for
lubricants

5 reasons to choose Kuraray elastomers

High thickening effect

Achieve the targeted viscosity with less additive

High shear stability

Stable performance even with mechanical shear

Low temperature performance

Keeps viscosity even in cold environment

High viscosity index

Broaden usable temperature range in lubricants

Good oil retention

prevents oil separation from grease

Product Line-ups

Kuraray's elastomers are used in lubricants like engine oil, gear oil, hydraulic oil, and lithium grease. Our hydrogenated styrenic block copolymer SEPTON™ is especially suitable for engine oil and lithium grease. KURARAY LIQUID RUBBER is appropriate for the use with gear oil or hydraulic fluid.

Application	SEPTON™	KURARAY LIQUID RUBBER
Engine Oil	✓	–
Gear Oil (Transmission Fluid)	–	✓
Hydraulic Fluid		
Lithium Grease	✓	–

Lubricant properties

Formulation for 75W90 Gear Oil*		KURARAY LIQUID RUBBER	PAMA
Viscosity modifier	wt%	9.0	23.5
Kinematic viscosity at 100 °C	mm²/s	16.3	16.6
Viscosity index	–	202	173
Brookfield viscosity at -40 °C	mPa • s	54,700	134,000
PSSI at 100 °C after KRL test	–	2.8%	27.5%

* Using paraffin oil and pour point depressant

Formulation for 10W30 Gear Oil*		SEPTON™	OCP
Viscosity modifier	wt%	1.3	10.1
Kinematic viscosity at 100 °C	mm²/s	10.9	11.2
Viscosity index	–	163	151
PSSI at 100 °C after shear test (Diesel injector method)	%	1.8	21
CCS viscosity at -25 °C	mPa • s	2,400	3,450

* Using paraffin oil and pour point depressant

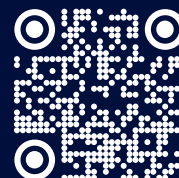
Formulation for Lithium Grease (No. 2)		Grease/oil/SEPTON™ (80/17/3, by wt)	Grease
Penetration	–	287	276
Oil separation degree (100 °C, 24h)	wt%	0.7	8.2

- ✓ High thickening effect
- ✓ Good shear stability
- ✓ Low temperature performance
- ✓ High viscosity index
- ✓ Good oil retention



For more information on
formulation, grades and more:

**GET IN TOUCH WITH KURARAY
REPRESENTATIVE NOW!**



Adding value to your products—worldwide



Kuraray is a world leader in specialty chemicals and functional materials. We are committed to developing products that ensure quality and value while helping our customers differentiate themselves from their competition.

Kuraray's Elastomer Division started in 1972 with the production of polyisoprene rubber and the development of new rubber materials based on Isoprene in the Kashima Plant. From the first

production line, the Elastomer Division continuously grew and invented new products such as KURARAY LIQUID RUBBER, ISOBAM™, SEPTON™ AND HYBRAR™.

Kuraray strives to develop new and innovative high-performance products for customers around the globe. Learn more about Kuraray's Elastomer products, visit elastomer.kuraray.com.

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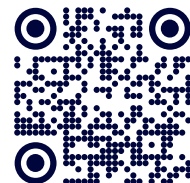
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