



Lion Copolymer Geismar, LLC

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Royalene® 694 EPDM

Product Data

"A Polymer Highly Extended with Heavy Hydrotreated Paraffinic Oil
for TPO and Extruded Thermoset Applications"

Unique Features

- ▶ Blends Readily in TPO Compounds
- ▶ Reduces Mixing Time in Highly Loaded TPO Compounds
- ▶ Highly Extendable
- ▶ Good Aging Properties
- ▶ Improved Shape Retention for Hose Tube and Other Extrusions
- ▶ High Molecular Weight Base Polymer
- ▶ Good Green Strength Over a Broad Temperature Range
- ▶ Useful for Making Low Hardness Compounds
- ▶ Extended with a white, hydrotreated paraffinic oil

Applications

- ▶ TPO and TPV
- ▶ Automotive Applications
- ▶ Mechanical Goods
- ▶ Hose Tubes, Profile Extrusions

Raw Polymer Properties

	Test Method*	Typical
Mooney Viscosity, ML (1+4)/125°C (Unmilled)	ZS 1220B	48
E/P Weight Ratio.....	ZS 1231	70/30
ENB, Weight %	ZS 1222	4.5
Molecular Weight Distribution.....	ZS 1296A	Medium
Oil Extension, phr (Hydrotreated Paraffinic) ...	ZS 1297	75
Volatile Matter, Weight %	ZS 1008K	1.0 Max.
Stabilizer	—	Non-Staining
Specific Gravity, g/cc.....	ASTM D-792	0.88
Color	ZS 1072A	Off-white
Physical Form, lbs/bale (Dense bale).....	—	55.1 (25 kg)

* Company Test Methods

Royalene® 694 has FDA Compliance with several FDA titles, including 21CFR: §177.2600, rubber articles intended for repeated use. Consult the FDA title for use and restrictions. See also the Royalene FDA Summary for other FDA titles.

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