



Lion Copolymer Geismar, LLC

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Royalene® 677 EPDM

Product Data

" A Highly Extendable ENB Polymer with Heavy Hydrotreated Paraffinic Oil for TPO/TPV and Thermoset Applications "

Unique Features

- ▶ Blends readily with polyolefins for TPO and TPV compounds
- ▶ Provides enhanced compression set and good color in TPV
- ▶ Highly extendable
- ▶ Good aging properties
- ▶ Good shape retention in extruded applications
- ▶ Very high molecular weight base polymer
- ▶ High 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	50
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	100
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)
Film Wrap	—	2 mil LDPE

* Company Test Methods

Royalene® 677 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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