



Lion Copolymer Geismar, LLC

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Royalene® 645 EPDM

Product Data

"A High Performance Sponge Polymer "

Unique Features

- ▶ Very high Molecular weight
- ▶ Ultra fast curing
- ▶ Improved abrasion resistance
- ▶ High tensile strength and high tear resistance
- ▶ High wrinkle resistance while maintaining soft compression deflection
- ▶ Excellent green strength for extruded profile shape stability
- ▶ Rapid Banbury mixing and excellent dispersion properties
- ▶ Extended with a white, hydrotreated paraffinic oil

Applications

- ▶ TPO and TPV
- ▶ Automotive closed cell sponge extrusions and molded sponge corners
- ▶ Closed cell sheet sponge
- ▶ Dynamic applications

Raw Polymer Properties

	Test Method*	Typical
Mooney Viscosity, ML (1+4)/125°C (Unmilled)	ZS 1220B	48
E/P Weight Ratio.....	ZS 1231	66/34
ENB, Weight %	ZS 1222	8.5
Molecular Weight Distribution.....	ZS 1296A	Medium
Oil Extension, phr (Hydrotreated Paraffinic) ..	ZS 1297	75
Volatile Matter, Weight %.....	ZS 1008K	0.7 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

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