



Lion Elastomers LLC

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Royalene[®] 400 EPDM

Product Data

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

Unique Features

- ▶ Very high molecular weight base polymer
- ▶ Highly extendable
- ▶ Extended with a light-colored paraffinic oil plasticizer
- ▶ Good green strength for shape retention on extrusion
- ▶ Excellent for making low hardness compounds
- ▶ Extended with a white, hydrotreated paraffinic oil

Applications

- ▶ Low durometer compounds
- ▶ TPO and TPV
- ▶ Profile Extrusions
- ▶ Blends with butyl rubber for tubes
- ▶ Low cost flexible cord and ignition wire insulations
- ▶ Dispersions
- ▶ Cable filler compounds

Raw Polymer Properties

	Test Method*	Typical
Mooney Viscosity, ML (1+4)/125°C (Unmilled)	ZS 1220B	37
E/P Weight Ratio.....	ZS 1231	67/33
DCPD, Weight %	ZS 1222	3
Molecular Weight Distribution	ZS 1296A	Broad
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)

Royalene[®] 400 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.

* Company Test Methods

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ASP-3564G
rfo-04/16

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