



Lion Copolymer Geismar, 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

Royalene 400

HWY 5/18

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