

Royalene® 677

Ethylene Propylene Diene Terpolymer

Lion Copolymer, LLC

Message:

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

General Information			
Features	Oil-filled		
	High molecular weight		
	High strength		
	Hardness, low		
	Medium wide molecular weight distribution		
Uses	Thermoforming Applications		
	Pipe		
	Pipe fittings		
	Mixing		
	Machine/mechanical parts		
Agency Ratings	FDA 21 CFR 177.2600		
	FDA not rated		
Appearance	White-like		
Forms	bag		
Processing Method	Extrusion		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880	g/cm ³	ASTM D792

Mooney Viscosity ¹ (ML 1+4, 125°C)	50	MU	Internal method
Ethylidene Norbornene (ENB) Content	4.5	wt%	Internal method
Oil Type (Paraffinic Oil)	50.0	phr	Internal method
Stabilizer	Non-staining		
Molecular Weight Distribution	Medium		Internal method
Volatile Matter		wt%	Internal method

Additional Information

E/P weight ratio, internal standard ZS 1231: 70/30

NOTE

1. Unmilled

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