NOVA Chemicals Sclair® FP019-D Octene Copolymer LLDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Octene, Film

Material Notes:

FP019-D is biologically and chemically inert.Features: Superior toughness, Outstanding melt strength, Excellent sealability, Low gelAdditives: Slip, Antiblock, Polymer Process AidApplications: High toughness film, Premium linersProperties measured from blown film produced on a laboratory extruder with 4" die and a 35-mil die gap at a blowup ratio of 2.5:1, and melt temperature 420°F. Films were made from 100% FP019-D.

Order this product through the following link:
http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-FP019-D-Octene-Copolymer-LLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ASTM D 792
Thickness	25.0 microns	0.984 mil	
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.20 MPa	1330 psi	ASTM D 882
Film Tensile Strength at Yield, TD	9.50 MPa	1380 psi	ASTM D 882
Film Elongation at Break, MD	560 %	560 %	ASTM D 882
Film Elongation at Break, TD	760 %	760 %	ASTM D 882
Elmendorf Tear Strength MD	303 g	303 g	ASTM D 1922
Elmendorf Tear Strength TD	588 g	588 g	ASTM D 1922
Elmendorf Tear Strength, MD	12.1 g/micron	307 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	23.5 g/micron	597 g/mil	
Dart Drop Test	560 g	1.23 lb	22; ASTM D 1709/A
Film Tensile Strength at Break, MD	61.0 MPa	8850 psi	ASTM D 882
Film Tensile Strength at Break, TD	48.0 MPa	6960 psi	ASTM D 882
1% Secant Modulus, MD	140 MPa	20300 psi	ASTM D 882
1% Secant Modulus, TD	170 MPa	24700 psi	ASTM D 882

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D 1003
Gloss	65 %	65 %	at 45°; ASTM D 2457

Descriptive Properties	Value	Comments
Low Friction Puncture (J/mm)	89	NOVA Chemicals Test Method

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