

NOVA Chemicals Sclair® FPr017-D Octene LLDPE Film Resin

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

Material Notes:

FPr017-D complies with the U.S. FDA specifications for olefin polymers and may thus be used in the United States as an article or component of an article intended for use in contact with food. FPr017-D is subject to the specific limitation that it may contact food only at temperatures of 212°F and below. NOVA Chemicals' polyethylene resins are chemically and biologically inert. Features: Outstanding melt strength, Superior toughness with excellent tear strength, Excellent seal properties, Low gel. Additives: Process stabilizer, Polymer process aid, Antiblock, Slip. Applications: Industrial liners, Retail trash bags, High toughness film. Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and a 35-mil die gap at a blowup ratio of 2.5:1, but are dependant upon operating conditions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-FPr017-D-Octene-LLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	ASTM D 792
Thickness	25.0 microns	0.984 mil	
Melt Flow	0.65 g/10 min @Load 2.16 kg, Temperature 190 °C	0.65 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.00 MPa	1310 psi	ASTM D 882
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ASTM D 882
Film Elongation at Break, MD	452 %	452 %	ASTM D 882
Film Elongation at Break, TD	737 %	737 %	ASTM D 882
Elmendorf Tear Strength MD	288 g	288 g	ASTM D 1922
Elmendorf Tear Strength TD	422 g	422 g	ASTM D 1922
Elmendorf Tear Strength, MD	11.5 g/micron	292 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	16.9 g/micron	429 g/mil	
Dart Drop Test	630 g	1.39 lb	25; ASTM D 1709/A
Film Tensile Strength at Break, MD	47.0 MPa	6820 psi	ASTM D 882
Film Tensile Strength at Break, TD	47.0 MPa	6820 psi	ASTM D 882
1% Secant Modulus, MD	127 MPa	18400 psi	ASTM D 882
1% Secant Modulus, TD			ASTM D 882

Mechanical Properties	144 MPa Metric	20900 psi English	Comments
Heat Seal Strength Initiation Temperature	100 °C	212 °F	Temperature at which a 2 mm film achieves a seal strength of 4.4N/13mm. Tested at 0.5s dwell, 0.27 N/mm ² bar pressure, 305mm/min. pull speed.; NOVA Chemicals test method

Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ASTM D 1003
Gloss	41 %	41 %	at 45°; ASTM D 2457

Processing Properties	Metric	English	Comments
Melt Temperature	185 - 220 °C	365 - 428 °F	Recommended
Die Opening	0.0889 - 0.216 cm	0.0350 - 0.0850 in	
Blow-up Ratio (BUR)	2.0 - 3.5	2.0 - 3.5	

Descriptive Properties	Value	Comments
Low Friction Puncture (J/mm)	68	NOVA Chemicals Test Method

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