

NOVA Chemicals Surpass® FPs117-C Octene Copolymer sLLDPE Film Resins

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

Material Notes:

FPs117-C complies with the U.S. FDA regulations 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, without temperature or food-type restrictions, subject to technical suitability. NOVA Chemicals' polyethylene resins are biologically and chemically inert. Features: Easy processability, Superior toughness with excellent tear strength, Excellent seal properties, Low gel. Additives: Antioxidant, Polymer process aid. Applications: Lamination film, Co-extruded sealant layer, and high toughness film. Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-FPs117-C-Octene-Copolymer-sLLDPE-Film-Resins.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	As tested for properties on this data sheet
	12.7 - 76.0 microns	0.500 - 2.99 mil	Recommended range for processing
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 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	540 %	540 %	ASTM D 882
Film Elongation at Break, TD	760 %	760 %	ASTM D 882
Elmendorf Tear Strength MD	300 g	300 g	ASTM D 1922
Elmendorf Tear Strength TD	450 g	450 g	ASTM D 1922
Elmendorf Tear Strength, MD	12.0 g/micron	305 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	18.0 g/micron	457 g/mil	ASTM D 1922
Dart Drop	16.0 g/micron	406 g/mil	ASTM D 1709/A
Dart Drop Test	400 g	0.882 lb	F50; ASTM D 1709/A
Film Tensile Strength at Break, MD	46.0 MPa	6670 psi	ASTM D 882

Film Tensile Strength at Break, TD Mechanical Properties	42.0 MPa Metric	6090 psi English	ASTM D 882 Comments
1% Secant Modulus, MD	126 MPa	18300 psi	ASTM D 882
1% Secant Modulus, TD	132 MPa	19100 psi	ASTM D 882
Heat Seal Strength Initiation Temperature	100 °C	212 °F	Temperature at which a 2-mil 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.

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	LDPE blended; ASTM D 1003
	16 %	16 %	100% LLDPE; ASTM D 1003
Gloss	37 %	37 %	At 45°, 100% LLDPE; ASTM D 2457
	72 %	72 %	At 45°, LDPE blended; ASTM D 2457

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 200 °C	356 - 392 °F	Recommended
Die Opening	0.0889 - 0.216 cm	0.0350 - 0.0850 in	Recommended range
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	Optimum range

Descriptive Properties	Value	Comments
Low Friction Puncture	79 (J/mm)	NOVA Chemicals test method

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