

NOVA Chemicals Surpass® FPs016-C Octene sLLDPE Film Resin

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

Material Notes:

FPs016-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. NOVA Chemicals' polyethylene resins are biologically and chemically inert. Features: Outstanding melt strength, Superior toughness with excellent tear strength, Excellent seal properties, Low gel. Additives: Process stabilizer, Polymer process aid. Applications: Lamination Film, Coextruded sealant layer, 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-FPs016-C-Octene-sLLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.916 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 - 127 microns	0.500 - 5.00 mil	Recommended range for processing
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	8.50 MPa	1230 psi	ASTM D 882
Film Tensile Strength at Yield, TD	8.50 MPa	1230 psi	ASTM D 882
Film Elongation at Break, MD	470 %	470 %	ASTM D 882
Film Elongation at Break, TD	780 %	780 %	ASTM D 882
Elmendorf Tear Strength MD	350 g	350 g	ASTM D 1922
Elmendorf Tear Strength TD	430 g	430 g	ASTM D 1922
Elmendorf Tear Strength, MD	14.0 g/micron	356 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	17.2 g/micron	437 g/mil	ASTM D 1922
Dart Drop	28.0 g/micron	711 g/mil	ASTM D 1709/A
Dart Drop Test	700 g	1.54 lb	F50; ASTM D 1709/A
Film Tensile Strength at Break, MD	47.0 MPa	6820 psi	ASTM D 882
Film Tensile Strength at Break, TD	44.0 MPa	6380 psi	ASTM D 882

Mechanical Properties ¹⁾	Metric ²⁾	English ³⁾	Comments ⁴⁾
1% Secant Modulus, TD	138 MPa	20000 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
	15 %	15 %	100% LLDPE; ASTM D 1003
Gloss	38 %	38 %	At 45°, 100% LLDPE; ASTM D 2457
	72 %	72 %	At 45°, LDPE blended; 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	Recommended range
Blow-up Ratio (BUR)	2.0 - 3.5	2.0 - 3.5	Optimum range

Descriptive Properties	Value	Comments
Low Friction Puncture	98 (J/mm)	NOVA Chemicals test method

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