

NOVA Chemicals Surpass® FPs225-A Octene Copolymer sLLDPE Film Resin

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

Material Notes:

FPs225-A 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: Excellent tensile and elongation properties, Good optical properties, Low gel level. Additives: High temperature AO. Applications: Co-extrusion and lamination. Film properties are typical of cast film extruded at a melt temperature of 500°F, and a line speed of 800 ft/min.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-FPs225-A-Octene-Copolymer-sLLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in ³	ASTM D 792
Thickness	20.0 microns	0.787 mil	As tested for properties on this data sheet
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.2 MPa	1480 psi	ASTM D 882
Film Tensile Strength at Yield, TD	9.80 MPa	1420 psi	ASTM D 882
Film Elongation at Break, MD	440 %	440 %	ASTM D 882
Film Elongation at Break, TD	780 %	780 %	ASTM D 882
Elmendorf Tear Strength MD	190 g	190 g	ASTM D 1922
Elmendorf Tear Strength TD	440 g	440 g	ASTM D 1922
Elmendorf Tear Strength, MD	9.50 g/micron	241 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	22.0 g/micron	559 g/mil	ASTM D 1922
Dart Drop	4.50 g/micron	114 g/mil	ASTM D 1709/A
Dart Drop Test	90.0 g	0.198 lb	F50; ASTM D 1709/A
Film Tensile Strength at Break, MD	34.0 MPa	4930 psi	ASTM D 882
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	ASTM D 882
1% Secant Modulus, MD	160 MPa	23200 psi	ASTM D 882

Mechanical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	2.3 %	2.3 %	ASTM D 1003
Gloss	84 %	84 %	At 45°; ASTM D 2457

Descriptive Properties	Value	Comments
Low Friction Puncture	60 (J/mm)	NOVA Chemicals test method (highlight instrumented stretch wrapper)

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