

NOVA Chemicals Sclair® FP020-D Octene Copolymer LLDPE Film Resin

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

Material Notes:

FP020-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. FP020-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 toughness and strength, Excellent sealability, Low gel. Additives: Antioxidant, Polymer process aid, Antiblock, Slip. Applications: Sealant and lamination film for food packaging, High strength film. Properties 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% FP020-D.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-FP020-D-Octene-Copolymer-LLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D 792
Thickness	25.0 microns	0.984 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.80 MPa	1420 psi	ASTM D 882
Film Tensile Strength at Yield, TD	9.70 MPa	1410 psi	ASTM D 882
Film Elongation at Break, MD	500 %	500 %	ASTM D 882
Film Elongation at Break, TD	800 %	800 %	ASTM D 882
Elmendorf Tear Strength MD	370 g	370 g	ASTM D 1922
Elmendorf Tear Strength TD	650 g	650 g	ASTM D 1922
Elmendorf Tear Strength, MD	14.8 g/micron	376 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	26.0 g/micron	660 g/mil	
Dart Drop Test	550 g	1.21 lb	22; ASTM D 1709/A
Film Tensile Strength at Break, MD	57.0 MPa	8270 psi	ASTM D 882
Film Tensile Strength at Break, TD	46.0 MPa	6670 psi	ASTM D 882
1% Secant Modulus, MD	180 MPa	26100 psi	ASTM D 882
1% Secant Modulus, TD			ASTM D 882

Mechanical Properties	205 MPa Metric	29700 psi English	Comments
Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D 1003
Gloss	58 %	58 %	at 45°; ASTM D 2457

Descriptive Properties	Value	Comments
Low Friction Puncture (J/mm)	60	NOVA Chemicals Test Method

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