

NOVA Chemicals Sclair® FP619-A Octene Copolymer LLDPE Film Resin

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

Material Notes:

FP619-A 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, without temperature or food-type restrictions, subject to technical suitability. NOVA Chemicals' polyethylene resins are chemically and biologically inert. Features: Exceptional toughness, Low gel level. Applications: Cast film, 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-Sclair-FP619-A-Octene-Copolymer-LLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM D 792
Thickness	20.0 microns	0.787 mil	
Melt Flow	5.9 g/10 min @Load 2.16 kg, Temperature 190 °C	5.9 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	8.30 MPa	1200 psi	ASTM D 882
Film Elongation at Break, MD	472 %	472 %	ASTM D 882
Film Elongation at Break, TD	647 %	647 %	ASTM D 882
Elmendorf Tear Strength MD	320 g	320 g	ASTM D 1922
Elmendorf Tear Strength TD	520 g	520 g	ASTM D 1922
Elmendorf Tear Strength, MD	16.0 g/micron	406 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	26.0 g/micron	660 g/mil	
Dart Drop Test	131 g	0.289 lb	7; ASTM D 1709/A
Film Tensile Strength at Break, MD	28.3 MPa	4100 psi	ASTM D 882
Film Tensile Strength at Break, TD	22.2 MPa	3220 psi	ASTM D 882
1% Secant Modulus, MD	116 MPa	16800 psi	ASTM D 882
1% Secant Modulus, TD	135 MPa	19600 psi	ASTM D 882

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D 1003
Gloss	91.5 %	91.5 %	at 45°; ASTM D 2457

Descriptive Properties	Value	Comments
Low Friction Puncture (J/mm)	52	NOVA Chemicals Test Method

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