

NOVA Chemicals Novapol® PF-0218-E Butene Copolymer LLDPE Film Resin

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

Material Notes:

PF-0218-E complies with the U.S. FDA specifications for olefin polymers and may be used in the U.S. 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. It is also biologically and chemically inert. The NOVA Chemicals Material Safety Data Sheet contains important safety information and should be reviewed before using the product. Features: Toughness and strength, Ease of extrusion Additives: Gas-fade-resistant process stabilizer only Applications: General packaging Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and 100-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-Novapol-PF-0218-E-Butene-Copolymer-LLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D 792
Thickness	25.0 microns	0.984 mil	
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	10.0 MPa	1450 psi	ASTM D 882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D 882
Film Elongation at Break, MD	660 %	660 %	ASTM D 882
Film Elongation at Break, TD	700 %	700 %	ASTM D 882
Elmendorf Tear Strength MD	110 g	110 g	ASTM D 1922
Elmendorf Tear Strength TD	330 g	330 g	ASTM D 1922
Elmendorf Tear Strength, MD	4.40 g/micron	112 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	13.2 g/micron	335 g/mil	ASTM D 1922
Dart Drop	4.00 g/micron	102 g/mil	F50; ASTM D 1709/A
Dart Drop Test	100 g	0.221 lb	F50; ASTM D 1709/A
Film Tensile Strength at Break, MD	32.0 MPa	4640 psi	ASTM D 882
Film Tensile Strength at Break, TD	25.0 MPa	3630 psi	ASTM D 882
1% Secant Modulus, MD			ASTM D 882

Mechanical Properties	170 MPa Metric	24700 psi English	Comments
1% Secant Modulus, TD	190 MPa	27600 psi	ASTM D 882

Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ASTM D 1003
Gloss	43 %	43 %	45°; ASTM D 2457

Processing Properties	Metric	English	Comments
Melt Temperature	195 - 205 °C	383 - 401 °F	
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	Optimum

Descriptive Properties	Value	Comments
Low Friction Puncture	29 (J/mm)	NOVA Chemicals test method

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