

NOVA Chemicals Novapol® PF-0318-E Butene LLDPE Film Resin

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

Material Notes:

PF-0318-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. It is also biologically and chemically inert. Features: Excellent optical properties, Easy processability Additives: High temperature AO Applications: Cast Stretch Wrap Film properties are Typical of cast film extruded at 280°C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-PF-0318-E-Butene-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	2.3 g/10 min @Load 2.16 kg, Temperature 190 °C	2.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.00 MPa	1310 psi	ASTM D 882
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ASTM D 882
Film Elongation at Break, MD	498 %	498 %	ASTM D 882
Film Elongation at Break, TD	775 %	775 %	ASTM D 882
Elmendorf Tear Strength MD	63 g	63 g	ASTM D 1922
Elmendorf Tear Strength TD	350 g	350 g	ASTM D 1922
Elmendorf Tear Strength, MD	3.15 g/micron	80.0 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	17.5 g/micron	445 g/mil	ASTM D 1922
Film Tensile Strength at Break, MD	36.0 MPa	5220 psi	ASTM D 882
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ASTM D 882
1% Secant Modulus, MD	156 MPa	22600 psi	ASTM D 882
1% Secant Modulus, TD	177 MPa	25700 psi	ASTM D 882

Optical Properties	Metric	English	Comments
Haze	1.3 %	1.3 %	ASTM D 1003

Gloss	91 %	91 %	45°- ASTM D 2457
Optical Properties	Metric	English	Comments

Descriptive Properties	Value	Comments
Low Friction Puncture	9 (ft-lb/mil)	NOVA Chemicals test method

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