

# polyethylene

## NOVAPOL® PF-0118 Series Resin

### Butene Copolymer LLDPE Film Resins



product data sheet

#### Grades

PF-0118-B  
PF-0118-C  
PF-0118-D  
PF-0118-F

#### Additive Packages

Slip (750 ppm), Antiblock (3150 ppm)  
Antiblock (5100 ppm)  
Slip (1500 ppm), Antiblock (6300 ppm)  
Process antioxidant only

#### Applications

Trash bags, liners, general packaging  
Industrial liners, heavy duty bags  
Trash bags, garment film, bags-on-roll  
Stretch wrap, blend resin, industrial packaging

Property	ASTM <sup>(1)</sup>	Typical Values <sup>(2)</sup> for PF-0118-F	
Melt Index <sup>(3)</sup>	D 1238	1.0 g/10 min	
Density	D 792	0.918 g/cm <sup>3</sup>	
		METRIC UNITS	ENGLISH UNITS
<b>Film Properties<sup>(4)</sup></b>			
Thickness		25 µm	1.0 mil
Tear Strength	MD D 1922	100 g	
	TD	330 g	
Dart Drop Impact, F <sub>50</sub>	D 1709/A	100 g	
Low Friction Puncture <sup>(5)</sup>		34 J/mm	8 in-lb/mil
Tensile Strength	MD D 882	49 MPa	7,100 psi
	TD	34 MPa	4,900 psi
Yield Strength	MD D 882	11 MPa	1,600 psi
	TD	11 MPa	1,600 psi
Elongation	MD D 882	540 %	540 %
	TD	830 %	830 %
1% Secant Modulus	MD D 882	200 MPa	29,000 psi
	TD	230 MPa	33,400 psi
Haze	D 1003	11 %	11 %
Gloss @ 45°	D 2457	56	56

**Melt Index** 1.0

**Density** 0.918

#### Features

- Toughness and strength

#### Common Additives

- Processing antioxidant

- (1) Properties designated have been determined using methods which are in accordance with, or substantially in accordance with, the specified testing standards.  
 (2) Typical Values represent average laboratory values and are intended as guides only, not as specifications.  
 (3) Condition 190°C/2.16 kg.  
 (4) 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.  
 (5) NOVA Chemicals test method.

## PRODUCT DATA SHEET

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### Availability

NOVAPOL PF-0118 Series polyethylene resins are available in bulk hopper cars, hopper trucks, boxes, sea bulk containers, or bags. The product type and batch number are clearly marked on each container. Contact the NOVA Chemicals sales office nearest you for availability in your area.

### Storage/Handling

NOVAPOL PF-0118 Series resin should be stored in a clean, dry place at ambient temperatures. Prolonged or improper storage can result in deterioration of product properties. Care should be taken when handling and transferring product to prevent foreign matter contamination. The NOVA Chemicals Material Safety Data Sheet (MSDS) contains important safety information and should be reviewed before using the product.

### Processing Conditions

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

### Food Packaging Status

United States: NOVAPOL PF-0118 Series resin complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for olefin polymers, para. (c) 3.2a, 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.

Other Countries: For regulatory compliance information for other countries, please contact your nearest NOVA Chemicals office.

### Environmental

NOVA Chemicals polyethylene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of NOVA Chemicals' polyethylene resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact NOVA Chemicals Technical Service for further information on recycling and disposal of NOVA Chemicals resins.



4 is the SPI resin code developed for low density and linear low density polyethylene to identify material type for sorting and recycling purposes.

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