NOVA Chemicals®

polyethylene

product data sheet

NOVAPOL® PF-0218 Series Resin

Butene Copolymer LLDPE Film Resins

Grades	Additive Packages	Applications
PF-0218-B	Slip (751 ppm), Antiblock (3150 ppm)	Trash bags, liners, general packaging
PF-0218-D	Slip (1500 ppm), Antiblock (6300 ppm)	Industrial liners, heavy duty bags
PF-0218-F	Process antioxidant only	Stretch wrap, blend resin, industrial packaging

Property	ASTM (1)	Typical Values(2) for PF-0218-F			
Melt Index(3)	D 1238	2.0 g/10 min			
Density	D 792	0.918 g/cm³			
		METRIC UNITS		ENGLISH UNITS	
Film Properties(4)					
Thickness		25	µm	1.0	mil
Tear Strength	MD D 1922	110	g		
	TD	330	g		
Dart Drop Impact, F_{50}	D 1709/A	100	g		
Low Friction Puncture(5)		29	J/mm	7	in-lb/mil
Tensile Strength	MD D 882	32	MPa	4,600	psi
	TD	25	MPa	3,600	psi
Yield Strength	MD D 882	10	MPa	1,500	psi
	TD	10	MPa	1,500	psi
Elongation	MD D 882	660	%	660	%
	TD	700	%	700	%
1% Secant Modulus	MD D 882	170	MPa	24,700	psi
	TD	190	MPa	27,600	psi
Haze	D 1003	14	%	14	%
Gloss @ 45°	D 2457	43		43	

(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.

Melt Index	2.0
Density	0.918

Features

- Toughness and strength
- Ease of extrusion

Common Additives

- Processing antioxidant

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PRODUCT DATA SHEET

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Availability

NOVAPOL PF-0218 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-0218 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 Safety Data Sheet (SDS) 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-0218 Series resin complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520(c) for olefin polymers. For details, please contact your NOVA Chemicals Technical Service Specialist.

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.



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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