NOVA Chemicals
Polyethylene

Product Data Sheet

NOVAPOL® PF-0318-E Resin

Butene Copolymer LLDPE Film Resin

Property	ASTM (1)	Typical Values (2)	
Melt Index(3)	D 1238	2.7 g/10 min	
Density	D 792	0.919 g/cm³	
		METRIC UNITS	ENGLISH UNITS

Film Properties(4)

Thickness			20	µm	0.8	mil
Tear Strength	MD	D 1922	57	g		
	TD		369	g		
Low Friction Puncture(5)			28	J/mm	6	in-lb/mil
Tensile Strength	MD	D 882	34	MPa	4,900	psi
	TD		21	MPa	3,000	psi
Yield Strength	MD	D 882	9	MPa	1,300	psi
	TD		9	MPa	1,300	psi
Elongation	MD	D 882	642	%	642	%
	TD		932	%	932	%
1% Secant Modulus	MD	D 882	170	MPa	24,700	psi
	TD		170	MPa	24,700	psi
Haze		D 1003	2	%	2	%
Gloss @ 45°		D 2457	93		93	

(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 cast film extruded at 280°C.
(5) NOVA Chemicals test method.

Melt Index	2.7
Density	0.919
Slip	None
Antiblock	None

Features

- Excellent optical properties
- Easy processability

Additives

- High temperature AO

Applications

- Cast stretch wrap
- Co-extrusion

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Availability

NOVAPOL PF-0318-E 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-0318-E 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-0318-E 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, except for infant formula and human milk, under Conditions of Use A–H (21 CFR 176.170(c) Table 2).

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.



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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