NOVA Chemicals®

polyethylene

product data sheet

NOVAPOL® LF-0718-A Resin

Homopolymer LDPE Film Resin

Property		ASTM	Typical Values			
Melt Index[3]		D 1238	7.0	g/10 min		
Density		D 792	0.917	g/cm³		
			METRIC UNITS		ENGLISH UNITS	
Film Properties[4]						
Thickness			38	µm	1.5	mil
Tear Strength	MD	D 1922	170	g		
	TD		98	g		
Dart Drop Impact, F_{50}		D 1709/A	112	g		
Low Friction Puncture[5]			17	J/mm	4	in-lb/mil
Tensile Strength	MD	D 882	19	MPa	2,800	psi
	TD		14	MPa	2,000	psi
Yield Strength	MD	D 882	10	MPa	1,500	psi
	TD		9	MPa	1,300	psi
Elongation	MD	D 882	300	%	300	%
	TD		470	%	470	%
1% Secant Modulus	MD	D 882	125	MPa	18,100	psi
	TD		140	MPa	20,300	psi
Haze		D 1003	9	%	9	%
Gloss @ 45°		D 2457	56		56	

(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 1.5" extruder with 3" die and 35-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	7.0
Density	0.917
Slip	None
Antiblock	None

Features

- Improves gloss and reduces haze in blends with LLDPE
- Improves melt strength and increases output in blends with LLDPE

Additives

- None

Applications

- Blends with LLDPE

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PRODUCT DATA SHEET

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Availability

NOVAPOL LF-0718-A 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 LF-0718-A 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 LF-0718-A 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) 2.1, and may thus be used in the United States as an article or component of an article intended for use in contact with food. This resin is subject to the specific limitation that it may not be used in articles used for packing or holding food during cooking.

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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