NOVA Chemicals®

polyethylene

product data sheet

NOVAPOL® LF-0222-F Resin

Homopolymer LDPE Clarity Film Resin

Property	ASTM	Typical Values
Melt Index[3]	D 1238	2.2 g/10 min
Density	D 792	0.922 g/cm³

			METRIC UNITS		ENGLISH UNITS	
Film Properties[4]						
Thickness			38	µm	1.5	mil
Tear Strength	MD	D 1922	232	g		
	TD		267	g		
Dart Drop Impact, F_{50}		D 1709/A	123	g		
Tensile Strength	MD	D 882	21	MPa	3,000	psi
	TD		18	MPa	2,600	psi
Yield Strength	MD	D 882	11	MPa	1,600	psi
	TD		11	MPa	1,600	psi
Elongation	MD	D 882	400	%	400	%
	TD		555	%	555	%
1% Secant Modulus	MD	D 882	190	MPa	27,600	psi
	TD		210	MPa	30,500	psi
Haze		D 1003	5	%	5	%
Gloss @ 45°		D 2457	79		79	
Coefficient of Friction		D 1894	>0.5		>0.5	

(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.

Melt Index	2.2
Density	0.922
Slip	None
Antiblock	None

Features

- High optical clarity
- Excellent processability

Applications

- Produce and bakery film
- General packaging requiring high clarity film

PRODUCT DATA SHEET

NOVAPOL LF-0222-F Resin

Homopolymer LDPE Clarity Film Resin

Availability

NOVAPOL LF-0222-F 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-0222-F 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 LF-0222-F 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) 2.2, 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.

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

NOVA Chemicals is a registered trademark of NOVA Brands Ltd.; authorized use/utilisation autorisée.
NOVAPOL® is a registered trademark of NOVA Brands Ltd.; authorized use/utilisation autorisée.

August 12, 2013

NOVA Chemicals® 403.291.8444 | 800.222.7213 | info@novachem.com | www.novachemicals.com

The above information is provided in good faith. NOVA Chemicals is not responsible for any processing or compounding which may occur to produce finished articles, packaging materials or their components. Further, NOVA CHEMICALS MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, REGARDING THE INFORMATION GIVEN FOR THE PRODUCTS DESCRIBED, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, REPRESENTATIONS AND CONDITIONS, INCLUDING WITHOUT LIMITATION ALL WARRANTIES AND CONDITIONS OF QUALITY, MERCHANTABILITY AND SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Responsibility for use, storage, handling and disposal of the products described herein is that of the purchaser or end user.