

polyethylene

NOVAPOL® LA-0522-A Resin

Homopolymer LDPE Extrusion Resin

product data sheet

Property	ASTM	Typical Values	
Melt Index ⁽³⁾	D 1238	4.5 g/10 min	
Density	D 792	0.920 g/cm ³	
		METRIC UNITS	ENGLISH UNITS
Coating Properties			
Minimum Coating Weight ⁽⁵⁾	D 539	8.0 g/m ²	5.0 lb/ream
Drawdown Speed ⁽⁴⁾		8.1 m/s	1,590 ft/min
Neck-in @ 1 000 ft/min ^(4,6)		5.1 cm	2.0 in
Heat Seal Strength ^(5,7)	D 517	1,400 g/25 mm	lb/in
Hot Tack Strength ^(4,7)		450 g/50 mm	lb/2 in
MVTR ⁽⁷⁾	F 1249	17 g/m ² /day	1 g/100 in ² /day
Plaque Properties			
1% Flexural Secant Modulus	D 790	276 MPa	40,000 psi
Yield Strength	D 638	9.4 MPa	1,400 psi
Elongation	D 638	650 %	650 %

Melt Index 4.5

Density 0.920

Slip None

Antiblock None

Features

- Excellent sealability
- High drawdown
- High adhesion
- Good foam processing window
- Maintains foam dimensional stability
- Achieves packaging foam density

Additives

- Base resin

Applications

- Paperboard containers
- Woven fabrics
- Lumber wrap
- Foam plank
- Foam sheeting
- Blending resin

(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) NOVA Chemicals test method.

(5) TAPPI test method.

(6) Neck-in reported is the total of both sides.

(7) Moisture Vapour Transmission Rate, 38°C (100°F), 90% RH on 30 lb Kraft paper samples with a LDPE coating weight of 15 lb/ream.

PRODUCT DATA SHEET

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Availability

NOVAPOL LA-0522-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 LA-0522-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 LA-0522-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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