

polyethylene

NOVAPOL® LA-0219-A Resin

Homopolymer LDPE Foam Resin



product data sheet

| Property | ASTM | Typical Values |
|---------------------------|--------|---------------------------------|
| Melt Index ⁽³⁾ | D 1238 | 2.3 g/10 min |
| Density | D 792 | 0.918 g/cm ³ |
| Melt Strength | | 0.50 g/3 min |
| | | METRIC UNITS ENGLISH UNITS |

Melt Index 2.3

Density 0.918

Slip None

Antiblock None

Film Properties⁽⁴⁾

| Property | ASTM | Metric Units | English Units |
|--------------------------------------|-----------|--------------|---------------|
| Thickness | | 38 µm | 1.5 mil |
| Tear Strength | MD D 1922 | 225 g | |
| | TD | 150 g | |
| Dart Drop Impact, F ₅₀ | D 1709/A | 90 g | |
| Low Friction Puncture ⁽⁵⁾ | | 45 J/mm | 10 in-lb/mil |
| Tensile Strength | MD D 882 | 18 MPa | 2,600 psi |
| | TD | 16 MPa | 2,300 psi |
| Yield Strength | MD D 882 | 10 MPa | 1,500 psi |
| | TD | 9 MPa | 1,300 psi |
| Elongation | MD D 882 | 350 % | 350 % |
| | TD | 550 % | 550 % |
| 1% Secant Modulus | MD D 882 | 150 MPa | 21,800 psi |
| | TD | 175 MPa | 25,400 psi |
| Haze | D 1003 | 12 % | 12 % |
| Gloss @ 45° | D 2457 | 40 | 40 |
| Coefficient of Friction | D 1894 | > 0.6 | > 0.6 |

Features

- Versatile multipurpose foam processing
- Good foam-processing window
- Suitable drawdown characteristics
- Maintains foam dimensional stability
- Achieves packaging-foam density

Additives

- Base resin

Applications

- Edge protection
- Foam sheet and profile extrusion
- Conventional and cross-linked foams
- Specialty foams

Plaque Properties

| Property | ASTM | Metric Units | English Units |
|----------------------------|-------|--------------|---------------|
| 1% Flexural Secant Modulus | D 790 | 296 MPa | 42,900 psi |
| Yield Strength | D 638 | 8.8 MPa | 1,300 psi |
| Elongation | D 638 | 712 % | 712 % |

(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 at a blowup ratio of 2.5:1; but are dependent upon operating conditions.

(5) NOVA Chemicals test method.

PRODUCT DATA SHEET

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Availability

NOVAPOL LA-0219-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-0219-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-0219-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.



4 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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