



SURPASS® FPs016-C02 Resin

Octene Copolymer LLDPE Film Resin

| Property | ASTM (1) | Typical Values(2) | |
|--------------------------------------|-----------------------|-------------------------|---------------|
| Melt Index ⁽³⁾ | D 1238 | 0.7 g/10 min | |
| Density | D 792 | 0.916 g/cm ³ | |
| | | METRIC UNITS | ENGLISH UNITS |
| Film Properties⁽⁴⁾ | | | |
| Thickness | | 25 µm | 1.0 mil |
| Tear Strength | MD D 1922 | 350 g | |
| | TD | 430 g | |
| Dart Drop Impact, F ₅₀ | D 1709/A | 700 g | |
| Low Friction Puncture ⁽⁵⁾ | | 98 J/mm | 22 in-lb/mil |
| Tensile Strength | MD D 882 | 47.0 MPa | 6,800 psi |
| | TD | 44.0 MPa | 6,400 psi |
| Yield Strength | MD D 882 | 8.5 MPa | 1,200 psi |
| | TD | 8.5 MPa | 1,200 psi |
| Elongation | MD D 882 | 470 % | 470 % |
| | TD | 780 % | 780 % |
| 1% Secant Modulus | MD D 882 | 126 MPa | 18,300 psi |
| | TD | 138 MPa | 20,000 psi |
| Haze (100% LLDPE) | ⁽⁶⁾ D 1003 | 15.0 % | 15.0 % |
| Haze (LDPE blended) | ⁽⁶⁾ D 1003 | 7 % | 7 % |
| Gloss @ 45° (100% LLDPE) | ⁽⁶⁾ D 2457 | 38.0 | 38.0 |
| Gloss @ 45° (LDPE blended) | ⁽⁶⁾ D 2457 | 72 | 72 |

Melt Index 0.7

Density 0.916

Slip None

Antiblock None

Features

- Outstanding melt strength
- Superior toughness with excellent tear strength
- Excellent seal properties
- Low gel

Additives

- Processing antioxidant
- Non-fluorinated PPA

Applications

- Lamination film
- Co-extruded sealant layer
- High toughness film

(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 2.5" extruder with 4" 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.

(6) Typical values obtained with LLDPE/LDPE blends. Intended as guides only; not to be construed as specifications.



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Availability

SURPASS FPs016-C02 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

SURPASS FPs016-C02 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

United States: SURPASS FPs016-C02 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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