



SURPASS[®] FPs123-A Resin

Octene Copolymer LLDPE Film Resin

Property	ASTM (1)	Typical Values(2)	
Melt Index(3)	D 1238	1.3 g/10 min	
Density	D 792	0.923 g/cm ³	
Vicat Softening Point	D 1525	110 °C	230 °F
		METRIC UNITS	ENGLISH UNITS

Film Properties(4)

Thickness		25 µm	1.0 mil
Tear Strength	MD D 1922	245 g	
	TD	570 g	
Low Friction Puncture(5)		69 J/mm	16 in-lb/mil
Tensile Strength	MD D 882	50 MPa	7,300 psi
	TD	40 MPa	5,800 psi
Yield Strength	MD D 882	13.2 MPa	1,900 psi
	TD	13.5 MPa	2,000 psi
1% Secant Modulus	MD D 882	230 MPa	33,400 psi
	TD	245 MPa	35,500 psi

Melt Index 1.3
Density 0.923

Features

- Very low gel level
- Good chill roll adhesion
- Enhanced stiffness
- Excellent optical properties

Additives

- Processing antioxidant

Applications

- Skin layer for tenter frame biaxial orientation process

(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 at a blow up ratio of 2.5:1.

(5) NOVA Chemicals test method.



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Availability

SURPASSFPs123-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

SURPASSFPs123-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: SURPASS FPs123-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) 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, without food-type restrictions, 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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