NOVA Chemicals
Polyethylene

Product Data Sheet

SURPASS® FPs417-A Resin

Octene Copolymer LLDPE Film Resin

Property	ASTM (1)	Units	Typical Values (2)
Melt Index(3)	D 1238		4.5 g/10 min
Density	D 792		0.917 g/cm³
		METRIC UNITS	ENGLISH UNITS
Film Properties(4)			
Thickness		20 µm	0.8 mil
Tear Strength	MD D 1922	375 g	
	TD	535 g	
Low Friction Puncture(5)		83 J/mm	19 in-lb/mil
Tensile Strength	MD D 882	32 MPa	4,600 psi
	TD	25 MPa	3,600 psi
Yield Strength	MD D 882	7.5 MPa	1,100 psi
	TD	7.0 MPa	1,000 psi
Elongation	MD D 882	470 %	
	TD	780 %	
1% Secant Modulus	MD D 882	100 MPa	14,500 psi
	TD	120 MPa	17,400 psi
Ultimate Elongation(5)		360 %	
Haze	D 1003	0.8 %	
Gloss @ 45°	D 2457	85	

(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 cast film extruded at a melt temperature of 500°F, and a line speed of 800 ft/min.

(5) NOVA Chemicals test method.

Melt Index	4.5
Density	0.917
Slip	None
Antiblock	None

Features

- Exceptional puncture resistance
- Very good tear properties
- Low gel
- Excellent optical properties
- Excellent elongation characteristics

Additives

- Enhanced processing antioxidant

Applications

- Cast stretch wrap
- Co-extrusion and lamination

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Availability

SURPASS FPs417-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

SURPASS FPs417-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

Please contact your NOVA Chemicals Technical Service Specialist.

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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