



SURPASS® SPs116 Series Resin

Octene Copolymer LLDPE Film Resins

Grades Additive Packages Applications

SPs116-C02 Non-fluorinated PPA Co-extruded sealant layer, lamination film, liquid packaging

SPs116-D02 Slip (1000 ppm), AB (2500 ppm), Non-fluorinated PPA Co-extruded sealant layer, lamination film

PPA = polymer process aid, AB = antiblock

Property	AS	TM ⁽¹⁾	Typica	l Value	s ⁽²⁾ for SPs110	6-C02
Melt Index ⁽³⁾		D 1238		1.0 g/10 min		
Density		D 792		0.916 g/cm³		
			METR	IC UNITS	S ENGLIS	SH UNITS
Film Properties ⁽⁴⁾						
Thickness			25	μm	1.0	mil
Tear Strength	MD	D 1922	270	g		
	TD		541	g		
Dart Drop Impact, F ₅₀		D 1709/A	695	g		
Low Friction Puncture ⁽⁵⁾			105	J/mm	24	in-lb/mil
Tensile Strength	MD	D 882	35.2	MPa	5,100	psi
	TD		51.6	MPa	7,500	psi
Yield Strength	MD	D 882	8.4	MPa	1,200	psi
	TD		8.6	MPa	1,200	psi
Elongation	MD	D 882	500	%		
	TD		870	%		
1% Secant Modulus	MD	D 882	160	MPa	23,200	psi
	TD		165	MPa	23,900	psi
Haze		D 1003	5	%		
Gloss @ 45°		D 2457	78			
Seal Initiation Temperature ^(5,6,7)			98	°C	208	°F

(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.

Melt Index	1.0
Density	0.916

Features

- · Excellent seal properties
- Superior toughness with excellent tear strength
- Excellent optics

Common Additives

- Processing antioxidant
- Non-fluorinated PPA

⁽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⁾ The seal initiation temperature is the temperature at which a 2-mil film achieves a seal strength of 8.8N/25.4mm.

⁽⁷⁾ Tested at 0.5s dwell, 0.27 N/mm² bar pressure, 305 mm/min pull speed.





SURPASS SPs116 Series Resin

Octene Copolymer LLDPE Film Resins

Availability

SURPASS SPs116 Series 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 SPs116 Series 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 SPs116 Series resin complies with the U.S. Federal Food, Drug, and Cosmetic Act as a food contact substance (FCS) as a result of a premarket notification to the FDA with an effective date of January 24, 2023, Food Contact Notification (FCN) 2251. This FCN permits use of this product in articles or components of articles in contact with all food types, 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.

The NOVA Chemicals logo is a registered trademark of NOVA Brands Ltd.; authorized use/utilisation autorisée. SURPASS® is a registered trademark of NOVA Chemicals Corporation in Canada and of NOVA Chemicals (International) S.A. elsewhere: authorized use/utilisation autorisée.

The above information is provided in good faith. NOVA Chemicals is not responsible for any processing or compounding which may occur to produce finished articles, packaging materials or their components. Further, NOVA CHEMICALS MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, REGARDING THE INFORMATION GIVEN FOR THE PRODUCTS DESCRIBED, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, REPRESENTATIONS AND CONDITIONS, INCLUDING WITHOUT LIMITATION ALL WARRANTIES AND CONDITIONS OF QUALITY, MERCHANTABILITY AND SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Responsibility for use, storage, handling and disposal of the products described herein is that of the purchaser or end user

June 27, 2023

