



SURPASS[®] SPsK919-F02 Resin

Octene Copolymer LLDPE Film Resin

Property	ASTM ⁽¹⁾	Units	Typical Values ⁽²⁾	
Melt Index ⁽³⁾		D 1238	0.85 g/10 min	
Density		D 792	0.919 g/cm ³	
			METRIC UNITS	ENGLISH UNITS
Film Properties⁽⁴⁾				
Thickness			25 µm	1.0 mil
Tear Strength	MD	D 1922	300 g	
		TD	520 g	
Dart Drop Impact, F ₅₀		D 1709/A	875 g	
Low Friction Puncture ⁽⁵⁾			55 J/mm	12 in-lb/mil
Tensile Strength	MD	D 882	49 MPa	7,100 psi
		TD	40 MPa	5,800 psi
Yield Strength	MD	D 882	10 MPa	1,400 psi
		TD	10 MPa	1,400 psi
Elongation	MD	D 882	580 %	
		TD	690 %	
1% Secant Modulus	MD	D 882	175 MPa	25,400 psi
		TD	185 MPa	26,800 psi
Haze		D 1003	11 %	
Gloss @ 45°		D 2457	60	
Seal Initiation Temperature ^(5,6,7)			103 °C	217 °F

Melt Index 0.85
Density 0.919
Slip None
Antiblock 4000

Features

- High toughness and strength
- Low haze and high gloss
- Excellent seal properties
- Low gel
- Easy processability

Additives

- Processing antioxidant
- Non-fluorinated PPA
- Antiblock

Applications

- Heavy duty shipping sacks requiring high toughness
- Industrial packaging
- Automatic packaging film
- Co-extruded films

(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) 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.



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Availability

SURPASS SPsK919-F02 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 SPsK919-F02 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

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 SPsK919-F02 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.

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