NOVA Chemicals
Polyethylene

Product Data Sheet

SURPASS® SPsK919-C02 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/cm³
		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	8 %	
Gloss @ 45°	D 2457	60	

(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.

Melt Index	0.85
Density	0.919
Slip	None
Antiblock	None

Features

- New version
- Easy processability
- High toughness and strength
- Excellent seal properties
- Low gel

Additives

- Processing antioxidant
- PFAS-free PPA

Applications

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

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Availability

SURPASS SPsK919-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 SPsK919-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

Processing Conditions

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

Food Packaging Status

SURPASS SPsK919-C02 resin, as supplied by NOVA Chemicals Corp., complies with the provisions of the United States Federal Food, Drug and Cosmetic Act which are applicable to the resin, and all applicable Food and Drug Administration (FDA) regulations.

Specifically, the subject resin will comply with the specifications contained in the FDA regulation 21 CFR 177.1520 for olefin polymers, para. (c) 3.2c, 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 C-H (21 CFR 176.170(c) Table 2). This resin is subject to the specific limitation that finished articles intended for food contact and composed solely of the resin must not exceed 3 mils (76 µm) in thickness.

The information cited above is subject to good manufacturing practice, technical suitability, and any limitations which are part of the regulations. It is recommended that you consult the regulations for complete details.

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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