



SURPASS[®] VPsK914 Series Resin

Octene Copolymer LLDPE Film Resins

Grades

VPsK914-C02
 VPsK914-CN02
 VPsK914-D02

Additive Packages

Processing antioxidant only
 Non-fluorinated PPA, gas-fade-resistant processing AO
 Slip (1000 ppm), AB (2500 ppm), Non-fluorinated PPA

Applications

Lamination film, co-extruded sealant layer, high toughness film
 Lamination film, co-extruded sealant layer, high toughness film
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PPA = polymer process aid

Property	ASTM (1)	Typical Values ⁽²⁾ for VPsK914-C02	
Melt Index ⁽³⁾	D 1238	0.85 g/10 min	
Density	D 792	0.913 g/cm ³	
		METRIC UNITS	ENGLISH UNITS

Film Properties⁽⁴⁾

Thickness		25 μm	1.0 mil
Tear Strength	MD D 1922	270 g	
	TD	600 g	
Dart Drop Impact, F ₅₀	D 1709/A	900 g	
Low Friction Puncture ⁽⁵⁾		98 J/mm	22 in-lb/mil
Tensile Strength	MD D 882	51 MPa	7,400 psi
	TD	57 MPa	8,300 psi
Yield Strength	MD D 882	9 MPa	1,200 psi
	TD	9 MPa	1,200 psi
Elongation	MD D 882	500 %	
	TD	730 %	
1% Secant Modulus	MD D 882	145 MPa	21,000 psi
	TD	160 MPa	23,200 psi
Haze	D 1003	6.5 %	
Gloss @ 45°	D 2457	65	

Melt Index 0.85

Density 0.913

Features

- Designed to deliver maximized output on high performance lines
- Outstanding melt strength for superior bubble stability
- High performance sealant
- Low haze
- Excellent seal properties
- Low gel

Common Additives

- Processing antioxidant

(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.



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Availability

SURPASS VPsk914 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 VPsk914 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 VPsk914 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.

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June 16, 2023