



VPs412-A Resin

Octene Copolymer sVLDPE Film Resin

Property	ASTM ⁽¹⁾	Typical Values ⁽²⁾	
Melt Index ⁽³⁾	D 1238	3.8 g/10 min	
Density	D 792	0.912 g/cm ³	
		METRIC UNITS	ENGLISH UNITS
Film Properties⁽⁴⁾			
Thickness		20 μm	0.8 mil
Tear Strength	MD D 1922	450 g	
	TD	710 g	
Low Friction Puncture ⁽⁵⁾		98 J/mm	22 in-lb/mil
Tensile Strength	MD D 882	35.5 MPa	5,100 psi
	TD	32.4 MPa	4,700 psi
Yield Strength	MD D 882	6.9 MPa	1,000 psi
	TD	6.1 MPa	900 psi
Elongation	MD D 882	545 %	545 %
	TD	710 %	710 %
1% Secant Modulus	MD D 882	92 MPa	13,300 psi
	TD	90 MPa	13,100 psi
Haze	D 1003	0.9 %	0.9 %
Gloss @ 45°	D 2457	93	93

Melt Index 3.8
Density 0.912

Features

- Exceptional puncture resistance
- Very good tear properties
- Low gel
- Excellent optical properties
- Low seal initiation temperature

Features

- Enhanced processing antioxidant

Features

- Co-extrusion and lamination sealant films
- Cast stretch wrap

(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.

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Availability

VPs412-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

VPs412-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

United States: VPs412-A resin complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for olefin polymers, para. (c) 3.2a, 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 A–H (21 CFR 176.170(c) Table 2).

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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