

Octene Copolymer sLLDPE Clarity Film Resin

HPs900-C

Melt Index 1.0

Density 0.917

Features

- Easy processability
- Exceptional clarity and gloss
- Excellent seal properties
- Low gel

Additives

- Antioxidant
- Polymer process aid

Applications

- High clarity applications
- Lamination film
- Coextruded sealant layer
- High toughness film

Properties		ASTM ⁽¹⁾	Units	Typical Values ⁽²⁾
Melt Index⁽³⁾		D 1238	g/10 min	1.0
Density		D 792	g/cm ³	0.917
Film Properties⁽⁴⁾				
Thickness			µm (mil)	25 (1.0)
Tear Strength	MD	D 1922	g	280
	TD		g	445
Dart Drop Impact, F₅₀		D 1709/A	g	460
Low Friction Puncture⁽⁵⁾			J/mm (in-lb/mil)	84 (19)
Tensile Strength	MD	D 882	MPa (psi)	49 (7 110)
	TD		MPa (psi)	43 (6 240)
Yield Strength	MD	D 882	MPa (psi)	9 (1 310)
	TD		MPa (psi)	9 (1 310)
Elongation	MD	D 882	%	520
	TD		%	750
1% Secant Modulus	MD	D 882	MPa (psi)	135 (19 580)
	TD		MPa (psi)	155 (22 480)
Haze		D 1003	%	4
Gloss @ 45°		D 2457	--	79
Seal Initiation Temperature^(5,6,7)			°C (°F)	100 (212)

- (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 190/2.16.
- (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 dependant upon operating conditions.
- (5) NOVA Chemicals test method.
- (6) Seal initiation temperature is the temperature at which a 2-mil film achieves a seal strength of 4.4N/13mm.
- (7) Tested at 0.5s dwell, 0.27 N/mm² bar pressure, 305mm/min. pull speed.

HPs900-C-sLLDPE

SURPASS®

Availability

SURPASS 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

HPs900-C 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 Material Safety Data Sheet (MSDS)** contains important safety information and should be reviewed before using the product.

Processing Conditions**Recommended Conditions:**

Melt Temperature	185°C - 200°C 370°F - 400°F
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Optimum Blow-up Ratio	2:1 - 3:1
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Die Gap	0.9 mm - 2.1 mm 0.035 in - 0.085 in
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Film Thickness	0.5 mil - 3.0 mil 12.7 µm - 76 µm
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Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

Food Packaging Status

United States: HPs900-C 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. HPs900-C is subject to the specific limitation that it may contact food only at temperatures of 212°F and below (21 CFR 176.170(c) Table 2, conditions of use B-H).

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.



LDPE 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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