NOVA Chemicals®

polyethylene

product data sheet

SURPASS® HPs667-AB Resin

Homopolymer sHDPE Film Resin

Property	ASTM (1)	Typical Values (2)
Melt Index (3)	D 1238	6.0 g/10 min
Density	D 792	0.968 g/cm³

			METRIC UNITS		ENGLISH UNITS
Film Properties (4)					
Thickness			50 µm	2.0	mil
Tear Strength	MD	D 1922	40 g		
	TD		70 g		
Low Friction Puncture (5)			15 J/mm	3	in-lb/mil
Yield Strength	MD	D 882	25 MPa	3,600	psi
	TD		24 MPa	3,500	psi
1% Secant Modulus	MD	D 882	1,050 MPa	152,300	psi
	TD		1,250 MPa	181,300	psi
OTR (6)		D 3985	700 cm³/m²/day	45	cm³/100in²/day
MVTR (7)		F 1249	1.2 g/m²/day	0.08	g/100 in²/day

(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 measured on a cast film. Processing conditions 350 lb/hr, 30" die and a 25 mil die gap.

(5) NOVA Chemicals test method.

(6) Oxygen Transmission Rate, 23°C (74°F), 0% RH, atmospheric pressure.

(7) Moisture Vapour Transmission Rate, 38°C (100°F), 100% RH, atmospheric pressure.

Melt Index	6.0
Density	0.968
Slip	None
Antiblock	None

Features

- Superior barrier properties
- Very high stiffness
- Low gel

Additives

- Processing antioxidant

Applications

- Moisture barrier films
- Co-extrusion
- Dry food packaging
- Cast film
- Extrusion lamination

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PRODUCT DATA SHEET

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Availability

SURPASS HPs667-AB 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 HPs667-AB 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 HPs667-AB 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) 2.2, 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)

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 high density polyethylene to identify material type for sorting and recycling purposes.

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NOVA Chemicals® 403.291.8444 | 800.222.7213 | info@novachem.com | www.novachemicals.com

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