NOVA Chemicals
Polyethylene

Product Data Sheet

SURPASS® CCs757-A Resin

Bi-Modal, Octene Copolymer sHDPE Injection Molding Resin for Caps & Closures

Property		ASTM (1)	Typical Values (2)	
Melt Index(3)		D 1238	7.0 g/10 min	
Density		D 792	0.957 g/cm³	
			METRIC UNITS	ENGLISH UNITS
Yield Strength	(4)	D 638	29 MPa	4,200 psi
Tensile Strength	(4)	D 638	24 MPa	3,500 psi
Elongation	(4)	D 638	800 %	
Elongation at Yield	(4)	D 638	8 %	
1% Flexural Secant Modulus	(5)	D 790	1,375 MPa	199,400 psi
Flexural Tangent Modulus	(5)	D 790	1,650 MPa	239,300 psi
Hardness, Shore D		D 2240	66	
ESCR, (F_{50})	(6)	D 1693	19 h	

(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) Tensile pull speed 50 mm/min.

(5) Procedure B.

(6) Average environmental stress crack resistance value based on ASTM 1693 (injection molded plaques), Condition B, 100% Igepal.

Melt Index	**7.0**
Density	**0.957**

Features

- Excellent organoleptic properties that exceed brand owners' strict standards for water
- Resin bi-modality enables exceptional processing characteristics and excellent stress cracking resistance
- Outstanding stiffness that enables production of light weight caps
- Fully recyclable

Additives

- Processing antioxidant

Applications

- Injection molded caps and closures for still and sparkling water

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Availability

SURPASS CCs757-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

SURPASS CCs757-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: SURPASS CCs757-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).

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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