NOVA Chemicals
Polyethylene

Product Data Sheet

SCLAIR® 56B4 Resin

Butene Copolymer HDPE Blow Molding Resin

Property		ASTM (1)	Typical Values (2)			
Melt Index(3)		D 1238	0.34	g/10 min		
Density		D 792	0.947	g/cm³		
			METRIC UNITS		ENGLISH UNITS	
Yield Strength	(4)	D 638	23	MPa	3,300	psi
Elongation	(4)	D 638	675	%	675	%
Elongation	(5)	D 638	300	%	300	%
Flexural Modulus	(6)	D 790	845	MPa	122,600	psi
Hardness, Shore D		D 2240	64			
Vicat Softening Point		D 1525	124	°C	255	°F
Low Temperature Brittleness Point		D 746	< -70	°C	< -94	°F
ESCR, (F_{50})	(7)	D 1693	800	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) Tensile pull speed 500 mm/min.

(6) Flexural Modulus at 2%.

(7) Environmental stress crack resistance, Condition B, 100% Igepal.

Melt Index	0.34
Density	0.947

Features

- Extra-high stress crack resistance
- Good processability

Additives

- Processing antioxidant
- High-antioxidant version where extra stabilization is required

Applications

- Very high ESCR
- Ideally suited for use in most food, pharmaceutical, household, and industrial chemical applications
- Little/no stacking

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Availability

SCLAIR 56B4 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

SCLAIR 56B4 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: SCLAIR 56B4 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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