NOVA Chemicals
Polyethylene

Product Data Sheet

SCLAIR® FP120-D Resin

Octene Copolymer LLDPE Film Resin

Property		ASTM (1)	Typical Values (2)			
Melt Index[3]		D 1238	1.0 g/10 min			
Density		D 792	0.920 g/cm³			
			METRIC UNITS		ENGLISH UNITS	
Film Properties[4]						
Thickness			25	µm	1.0	mil
Tear Strength	MD	D 1922	420	g		
	TD		605	g		
Dart Drop Impact, F_{50}		D 1709/A	270	g		
Low Friction Puncture[5]			36	J/mm	8	in-lb/mil
Tensile Strength	MD	D 882	48	MPa	7,000	psi
	TD		32	MPa	4,600	psi
Yield Strength	MD	D 882	10	MPa	1,500	psi
	TD		10	MPa	1,500	psi
Elongation	MD	D 882	480	%		
	TD		670	%		
1% Secant Modulus	MD	D 882	175	MPa	25,400	psi
	TD		195	MPa	28,300	psi
Haze		D 1003	10	%		
Gloss @ 45°		D 2457	59			

(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 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 dependent upon operating conditions.

(5) NOVA Chemicals test method.

Melt Index	1.0
Density	0.920
Slip	1000
Antiblock	2500

Features

- Easy processability
- High toughness and strength
- Excellent seal properties
- Next generation non-fluorinated PPA

Additives

- Processing AO
- Non-fluorinated PPA
- Antiblock
- Slip

Applications

- Food packaging
- Freezer film
- Lamination and sealant film

Product Data Sheet

NOVA Chemicals
Polyethylene

SCLAIR FP120-D Resin

Octene Copolymer LLDPE Film Resin

Availability

SCLAIR FP120-D 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 FP120-D 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 FP120-D resin complies with the specifications contained in the 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 ≤ 6 mil (152 µm) thick intended for use in contact with food, except for infant formula and human milk, 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.

4 LDPE is the SPI resin code developed for low density and linear low density polyethylene to identify material type for sorting and recycling purposes.

The NOVA Chemicals logo is a registered trademark of NOVA Brands Ltd.; authorized use/utilisation autorisée.
SCLAIR® is a registered trademark of NOVA Chemicals Corporation in Canada and of NOVA Chemicals (International) S.A. elsewhere; authorized use/utilisation autorisée.

The above information is provided in good faith. NOVA Chemicals is not responsible for any processing or compounding which may occur to produce finished articles, packaging materials or their components. Further, NOVA CHEMICALS MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, REGARDING THE INFORMATION GIVEN FOR THE PRODUCTS DESCRIBED, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, REPRESENTATIONS AND CONDITIONS, INCLUDING WITHOUT LIMITATION ALL WARRANTIES AND CONDITIONS OF QUALITY, MERCHANTABILITY AND SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Responsibility for use, storage, handling and disposal of the products described herein is that of the purchaser or end user.

April 28, 2025