

polyethylene

SCLAIR® FP120 Series Resin

Octene Copolymer LLDPE Film Resins

product data sheet

Grades

FP120-A
FP120-C
FP120-CE
FP120-CN
FP120-D
FP120-F

Additive Packages

Processing AO only
PPA
PPA, enhanced processing AO
PPA, gas-fade-resistant processing AO
Slip (1000 ppm), AB (2500 ppm), PPA
AB (3000 ppm), PPA

Applications

General purpose film, co-extrusion and lamination
Food packaging, freezer film, lamination and sealant film
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Heavy duty shipping sacks, high strength packaging

AO = antioxidant, PPA = polymer process aid, AB = antiblock

Property	ASTM (1)	Typical Values(2) for FP120-D	
Melt Index ⁽³⁾	D 1238	1.0 g/10 min	
Density	D 792	0.920 g/cm ³	
		METRIC UNITS	ENGLISH UNITS

Melt Index	1.0
Density	0.920

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 %	480 %
	TD	670 %	670 %
1% Secant Modulus	MD D 882	175 MPa	25,400 psi
	TD	195 MPa	28,300 psi
Haze	D 1003	10 %	10 %
Gloss @ 45°	D 2457	59	59

Features

- Easy processability
- High toughness and strength
- Excellent seal properties

Common Additives

- Processing antioxidant

(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.

PRODUCT DATA SHEET

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Availability

SCLAIR FP120 Series 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 Series 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 Series 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 temperature or food-type restrictions, subject to technical suitability.

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 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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