

Grades

- FP120-A
- FP120-B
- FP120-C
- FP120-D
- FP120-F

Additive Packages

- Process stabilizer only
- Slip, antiblock
- Polymer process aid
- Slip, antiblock, polymer process aid
- Antiblock, polymer process aid

Applications

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

FP120 Series

Melt Index 1.0

Density 0.920

Features

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

Common Additives

- Process stabilizer

Properties		ASTM ⁽¹⁾	Units	Typical Values ⁽²⁾ for FP120-D
Melt Index⁽³⁾		D 1238	g/10 min	1.0
Density		D 792	g/cm ³	0.920
Film Properties⁽⁴⁾				
Thickness			µm (mil)	25 (1.0)
Tear Strength	MD	D 1922	g	420
	TD		g	605
Dart Drop Impact, F₅₀		D 1709/A	g	270
Low Friction Puncture⁽⁵⁾			J/mm (in-lb/mil)	36 (8)
Tensile Strength	MD	D 882	MPa (psi)	48 (6 960)
	TD		MPa (psi)	32 (4 640)
Yield Strength	MD	D 882	MPa (psi)	10 (1 450)
	TD		MPa (psi)	10 (1 450)
Elongation	MD	D 882	%	480
	TD		%	670
1% Secant Modulus	MD	D 882	MPa (psi)	175 (25 375)
	TD		MPa (psi)	195 (28 275)
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 190/2.16.

(4) Film properties are typical of blown film extruded at a blowup ratio of 2.5:1 and a die gap of 35-mil, but are dependent upon operating conditions.

(5) NOVA Chemicals test method.

FP120 Series – LLDPE

SCLAIR

Availability

SCLAIR 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

FP120 Series resins 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 Material Safety Data Sheet (MSDS)** contains important safety information and should be reviewed before using the product.

Processing Conditions**Recommended Conditions:**

Melt Temperature	210°C - 230°C 410°F - 446°F
Optimum Blow-up Ratio	2:1 - 3:1
Die Gap with PPA	0.9 mm - 2.0 mm 0.035 in - 0.080 in
Die Gap without PPA	2.0 mm - 2.5 mm 0.08 in - 0.10 in
Film Thickness	1.0 mil - 6.0 mil 25 µm - 150 µm

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

Food Packaging Status

United States: FP120-A, FP120-B, FP120-C, FP120-D, and FP120-F comply 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.

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.



LDPE 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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