

SCLAIR® FP120 Series

Linear Low Density Polyethylene

NOVA Chemicals

Message:

- FP120-A (Processing AO only): General purpose film, coextrusion and lamination
- FP120-C (PPA): General purpose film, coextrusion and lamination
- FP120-CN (PPA, gas-fade-resistant processing AO): Food packaging, freezer film, lamination and sealant film
- FP120-D (1000 ppm Slip, 2500 ppm AB, PPA): Food packaging, freezer film, lamination and sealant film
- FP120-F (3000 ppm AB, PPA): Heavy duty shipping sacks, high strength packaging

General Information	
Additive	FP120-D: Antiblock (2500 ppm); Processing Aid; Slip (1000 ppm) FP120-F: Antiblock (3000 ppm); Processing Aid FP120-CN: Anti-gas fading; Antioxidant; Processing Aid FP120-A: Antioxidant FP120-C: Processing Aid
Features	Antiblocking Antioxidant Food Contact Acceptable General Purpose Good Heat Seal Good Toughness High Strength Low Density Octene Comonomer Slip
Uses	Film Food Packaging General Purpose Heavy-duty Bags Laminates
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a 2 FDA 21 CFR 177.1520(c) 3.2a 3
Forms	Pellets
Processing Method	Coextrusion Film Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Secant Modulus			ASTM D882
1% Secant, MD : 25 μm, Blown Film	175	MPa	
1% Secant, TD : 25 μm, Blown Film	195	MPa	
Tensile Strength			ASTM D882
MD : Yield, 25 μm, Blown Film	10.0	MPa	
TD : Yield, 25 μm, Blown Film	10.0	MPa	
MD : Break, 25 μm, Blown Film	48.0	MPa	
TD : Break, 25 μm, Blown Film	32.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 μm, Blown Film	480	%	
TD : Break, 25 μm, Blown Film	670	%	
Dart Drop Impact (25 μm, Blown Film)	270	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm, Blown Film	420	g	
TD : 25 μm, Blown Film	610	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	59		ASTM D2457
Haze (25.0 μm, Blown Film)	10	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (25.0 μm)	360	J/cm	Internal Method

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