

Sasol Polymers PE HF120

Linear Low Density Polyethylene

Sasol Polymers

Message:

- Features
 - Hexene copolymer
 - Outstanding mechanical properties
 - Good heat sealing range
 - Good stiffness
- Applications
 - Blown stretch film
 - Blending into LDPE

General Information			
Additive	Antioxidation		
Features	Rigid, good		
	Copolymer		
	hexene comonomer		
	Antioxidation		
	Good heat sealability		
Uses	Compliance of Food Exposure		
Agency Ratings	Films		
	Mixing		
Agency Ratings	EC 1935/2004		
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)		
	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
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	30	µm	
Tensile Strength			ASTM D882
MD: Yield, 30 µm, blown film	10.0	MPa	ASTM D882
TD: Yield, 30 µm, blown film	11.0	MPa	ASTM D882
MD: Broken, 30 µm, blown film	47.0	MPa	ASTM D882
TD: Broken, 30 µm, blown film	41.0	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Yield, 30 µm, blown film	590	%	ASTM D882
TD: Yield, 30 µm, blown film	750	%	ASTM D882
Dart Drop Impact ¹ (30 µm, Blown Film)	170	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 30 µm, blown film	13	g	ASTM D1922
TD: 30 µm, blown film	24	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	33		ASTM D2457
Haze	19	%	ASTM D1003

Additional Information

The above values were calculated from data for 30µm film produced on a 75mm Barmag extruder with 190°C melt temperature using a 2:1 blow ratio and a die gap of 3.0mm.

Extrusion	Nominal Value	Unit
Hopper Temperature	180 - 190	°C
Cylinder Zone 1 Temp.	190 - 200	°C
Cylinder Zone 2 Temp.	190 - 200	°C
Cylinder Zone 3 Temp.	190 - 200	°C
Cylinder Zone 4 Temp.	190 - 200	°C
Melt Temperature	190	°C
Die Temperature	190 - 200	°C

Extrusion instructions

Screen Pack: 20/40/20 BS mesh Blow ratio: >2:1

NOTE

1. F50

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