

Sasol Polymers PE HF121

Linear Low Density Polyethylene

Sasol Polymers

Message:

- Features
- Hexene copolymer
- Outstanding mechanical properties
- Excellent drawdown
- Good heat sealing range
- Applications
- General packaging (30 m to 70 m)
- Blending into LDPE

General Information			
Additive	Antioxidation		
	Moderate caking resistance		
	Moderate smoothness		
Features	Copolymer		
	hexene comonomer		
	Antioxidation		
	Good stripping		
	Good heat sealability		
	Compliance of Food Exposure		
	Moderate caking resistance		
	Moderate smoothness		
Uses	Packaging		
	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	0.924	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894

With itself-dynamic, blown film	0.14		ASTM D1894
With itself-static, blown film	0.14		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	μm	
Tensile Strength			ASTM D882
MD: Yield, 30 μm, blown film	13.0	MPa	ASTM D882
TD: Yield, 30 μm, blown film	11.0	MPa	ASTM D882
MD: Broken, 30 μm, blown film	34.0	MPa	ASTM D882
TD: Broken, 30 μm, blown film	25.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 30 μm, blown film	530	%	ASTM D882
TD: Yield, 30 μm, blown film	650	%	ASTM D882
Dart Drop Impact ¹ (30 μm, Blown Film)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 30 μm, blown film	9.0	g	ASTM D1922
TD: 30 μm, blown film	28	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	51		ASTM D2457
Haze	12	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Blocking	19	g	ASTM D3354
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 meshBlow ratio: >2:1			
NOTE			
1.	F50		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

