

# Sasol Polymers PE HF123

Linear Low Density Polyethylene

Sasol Polymers

Message:

- Features
  - Hexene copolymer
  - Outstanding mechanical properties
  - Excellent drawdown
  - Good heat sealing range
  - Good stiffness
- Applications
  - General packaging thin film (10µm to 30µm)
  - Not recommended for lamination film
  - Blending into LDPE

General Information			
Additive	High smoothness		
	High caking resistance		
	Antioxidation		
Features	Rigid, good		
	High smoothness		
	High caking resistance		
	Copolymer		
	hexene comonomer		
	Antioxidation		
	Good stripping		
	Good heat sealability		
	Compliance of Food Exposure		
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	0.929	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	0.12		ASTM D1894
With itself-static, blown film	0.12		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Tensile Strength			ASTM D882
MD: Yield, 30 µm, blown film	12.0	MPa	ASTM D882
TD: Yield, 30 µm, blown film	12.0	MPa	ASTM D882
MD: Broken, 30 µm, blown film	33.0	MPa	ASTM D882
TD: Broken, 30 µm, blown film	23.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 30 µm, blown film	500	%	ASTM D882
TD: Yield, 30 µm, blown film	580	%	ASTM D882
Dart Drop Impact <sup>1</sup> (30 µm, Blown Film)	150	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 30 µm, blown film	8.0	g	ASTM D1922
TD: 30 µm, blown film	27	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	45		ASTM D2457
Haze	15	%	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.			
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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