

Sasol Polymers PE HF101

Linear Low Density Polyethylene

Sasol Polymers

Message:

- Features
- Hexene copolymer
- Outstanding mechanical properties
- Excellent puncture resistance
- High impact strength
- Applications
- Heavy duty film (> 100 µm)
- Blending into HDPE or LDPE

General Information			
Additive	Low caking resistance		
	Antioxidation		
Features	Low caking resistance		
	Copolymer		
	hexene comonomer		
	Perforation resistance		
	Antioxidation		
	Impact resistance, high		
	Compliance of Food Exposure		
Uses	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	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	100	µm	
Tensile Strength			ASTM D882
MD: Yield, 100 µm, blown film	11.0	MPa	ASTM D882
TD: Yield, 100 µm, blown film	12.0	MPa	ASTM D882

MD: Broken, 100 μm, blown film	38.0	MPa	ASTM D882
TD: Broken, 100 μm, blown film	37.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 100 μm, blown film	730	%	ASTM D882
TD: Yield, 100 μm, blown film	760	%	ASTM D882
Dart Drop Impact ¹ (100 μm, Blown Film)	500	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 100 μm, blown film	18	g	ASTM D1922
TD: 100 μm, blown film	20	g	ASTM D1922

Additional Information

The above values were calculated from data for 100μm 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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT