

Sasol Polymers PE HF140

Linear Low Density Polyethylene

Sasol Polymers

Message:

- Features
- Hexene copolymer
- Medium strength LLDPE
- Good heat sealing range
- Applications
- Cast monolayer and coextruded film
- Stretch film
- Pipe and profile extrusion

General Information	
Additive	Antioxidation heat stabilizer
Features	Copolymer hexene comonomer Antioxidation Good heat sealability Thermal Stability Compliance of Food Exposure Medium strength
Uses	Films Piping system cast film Profile
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	Film extrusion Co-extrusion molding Pipeline extrusion molding cast film Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
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Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	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	37.0	MPa	ASTM D882
TD: Broken, 30 μm, blown film	35.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 30 μm, blown film	630	%	ASTM D882
TD: Yield, 30 μm, blown film	740	%	ASTM D882
Dart Drop Impact ¹ (30 μm, Blown Film)	130	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 30 μm, blown film	11	g	ASTM D1922
TD: 30 μm, blown film	31	g	ASTM D1922

Additional Information

Mechanical and surface properties will be dependent on mode of extrusion. In coextruded film and laminates, the overall properties will be dependent on the combined effect of the materials used. The above values were obtained from 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	190 - 220	°C
Cylinder Zone 1 Temp.	220 - 250	°C
Cylinder Zone 2 Temp.	250 - 280	°C
Cylinder Zone 3 Temp.	250 - 300	°C
Cylinder Zone 4 Temp.	250 - 320	°C
Melt Temperature	250 - 300	°C
Die Temperature	250 - 320	°C

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



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