

Sasol Polymers PE LT159 (Film Extrusion)

Low Density Polyethylene

Sasol Polymers

Message:

- Features
 - Tubular resin
 - Good mechanical properties
 - Excellent clarity
 - Excellent gloss
- Applications
 - Non-slip shrink film
 - Lamination film
 - Blending resin to modify CoF

General Information			
Additive	Antioxidation		
Features	Highlight		
	Antioxidation		
	Definition, 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	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	10.0	MPa	ASTM D882
TD: Yield, 50 µm, blown film	10.0	MPa	ASTM D882
MD: Broken, 50 µm, blown film	23.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 50 µm, blown film	450	%	ASTM D882

TD: Yield, 50 µm, blown film	570	%	ASTM D882
Dart Drop Impact ¹ (50 µm, Blown Film)	130	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	4.0	g	ASTM D1922
TD: 50 µm, blown film	5.0	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss	65		ASTM D2457
Clarity	50.0		ASTM D1746
Haze	7.0	%	ASTM D1003

Additional Information

The above values were measured on 50µm film produced on a 65mm Macchi extruder with a Macchi LDPE screw and a 250mm die, using 207°C melt temperature, 625mm FLH, 2.5:1 blow ratio and a die gap of 0.8mm.

Extrusion	Nominal Value	Unit
Hopper Temperature	130 - 150	°C
Cylinder Zone 1 Temp.	140 - 155	°C
Cylinder Zone 2 Temp.	150 - 165	°C
Cylinder Zone 3 Temp.	155 - 175	°C
Cylinder Zone 4 Temp.	165 - 180	°C
Melt Temperature	190 - 210	°C
Die Temperature	170 - 180	°C

Extrusion instructions

Should be processed on a conventional LDPE extruder, but can be processed on a LLDPE extruder (wide die gap) with drawdown limitations, inferior mechanical and film shrinkage properties. Recommended screen pack:60/100/60 BS mesh.

NOTE

1. F50

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