

Sasol Polymers PE LT033 (Film Extrusion)

Low Density Polyethylene

Sasol Polymers

Message:

- Features
- Tubular resin
- Good mechanical properties
- High impact strength
- High tear strength
- Wide processing range
- Applications
- Heavy duty shrink film (> 100µm)
- Heavy duty sacks
- Agricultural film
- Thick film

General Information			
Additive	Antioxidation		
Features	Antioxidation		
	Impact resistance, high		
	Good tear strength		
	Compliance of Food Exposure		
Uses	Films		
	Agricultural application		
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	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.33	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	10.0	MPa	ASTM D882
MD: Broken, 100 µm, blown film	23.0	MPa	ASTM D882
TD: Broken, 100 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Yield, 100 μm, blown film	510	%	ASTM D882
TD: Yield, 100 μm, blown film	610	%	ASTM D882
Dart Drop Impact ¹ (100 μm, Blown Film)	300	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 100 μm, blown film	3.0	g	ASTM D1922
TD: 100 μm, blown film	5.0	g	ASTM D1922

Additional Information

The above values were measured on 100μm film produced on a 65mm Macchi extruder with a Macchi LDPE screw and a 250mm die, using 218°C melt temperature, 625mm FLH, 2.5:1 blow ratio and a die gap of 0.8mm.

Extrusion	Nominal Value	Unit
Hopper Temperature	130 - 160	°C
Cylinder Zone 1 Temp.	150 - 170	°C
Cylinder Zone 2 Temp.	160 - 175	°C
Cylinder Zone 3 Temp.	165 - 185	°C
Cylinder Zone 4 Temp.	175 - 190	°C
Melt Temperature	200 - 220	°C
Die Temperature	180 - 190	°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. The optimum blow ratio is 2:1. However excellent properties are obtained.

NOTE

1. F50

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