

# Sasol Polymers PE LT079

Low Density Polyethylene

Sasol Polymers

Message:

- Features
- Tubular resin
- Good mechanical properties
- Good optical properties
- Applications
- Light duty shrink film (50µm to 80µm)
- Lamination film

General Information			
Additive	Antioxidation		
	Moderate caking resistance		
Features	Optical		
	Antioxidation		
	Compliance of Food Exposure		
	Moderate caking resistance		
Uses	Films		
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 <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With itself-dynamic, blown film	0.41		ASTM D1894
With itself-static, blown film	0.42		ASTM D1894
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	22.0	MPa	ASTM D882

TD: Broken, 50 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 50 µm, blown film	430	%	ASTM D882
TD: Yield, 50 µm, blown film	570	%	ASTM D882
Dart Drop Impact <sup>1</sup> (50 µm, Blown Film)	120	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	5.0	g	ASTM D1922
TD: 50 µm, blown film	5.0	g	ASTM D1922

Optical	Nominal Value	Unit	Test Method
Gloss	60		ASTM D2457
Clarity	40.0		ASTM D1746
Haze	7.5	%	ASTM D1003

Additional Information	Nominal Value	Unit	Test Method
Blocking		g	ASTM D3354

The above values were measured on 50µm film produced on a 65mm Macchi extruder with Macchi LDPE screw and a 250mm die, using 208°C melt temperature, 610mm 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

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