

# Sasol Polymers PE LT660

Low Density Polyethylene

Sasol Polymers

Message:

- Features
  - Tubular resin
  - Good clarity
  - Wide sealing range
  - Good drawdown
- Applications
  - General packaging film (20µm to 50µm)
  - Clarity film
  - Thin film

General Information			
Additive	Antioxidation		
	Moderate caking resistance		
	Moderate smoothness		
Features	Broad Seal Range		
	Antioxidation		
	Good stripping		
	Compliance of Food Exposure		
	Moderate caking resistance		
	Medium transparency		
	Moderate smoothness		
Uses	Packaging		
	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)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With itself-dynamic, blown film	0.10		ASTM D1894

With itself-static, blown film	0.10		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	9.00	MPa	ASTM D882
MD: Broken, 50 μm, blown film	21.0	MPa	ASTM D882
TD: Broken, 50 μm, blown film	17.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 50 μm, blown film	310	%	ASTM D882
TD: Yield, 50 μm, blown film	550	%	ASTM D882
Dart Drop Impact <sup>1</sup> (50 μm, Blown Film)	65	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 50 μm, blown film	8.0	g	ASTM D1922
TD: 50 μm, blown film	6.0	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss	63		ASTM D2457
Clarity	48.0		ASTM D1746
Haze	6.5	%	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 a Macchi LDPE screw and a 250mm die, using 208°C melt temperature, 625mm FLH, 2.5:1 blow ratio and a die gap of 0.8mm.			
Extrusion	Nominal Value	Unit	
Hopper Temperature	125 - 140	°C	
Cylinder Zone 1 Temp.	130 - 145	°C	
Cylinder Zone 2 Temp.	140 - 155	°C	
Cylinder Zone 3 Temp.	150 - 165	°C	
Cylinder Zone 4 Temp.	155 - 170	°C	
Melt Temperature	170 - 190	°C	
Die Temperature	160 - 170	°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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