

Braskem PE PB-681

Low Density Polyethylene

Braskem

Message:

Description:
The PB681 is a resin produced under high pressure, in tubular reactor. This resin presents excellent 'draw down'(stability to form fine films). The films produced with this resin present excellent optical properties.

Applications:
LLDPE and HDPE blends.

Process:
Blown Film Extrusion
Cast Film Extrusion
Injection Moulding

General Information			
Features	Low density		
	Optical		
	Good stripping		
Uses	Mixing		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
	cast film		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.8	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Tensile Strength			ASTM D882
MD: Fracture	30.0	MPa	ASTM D882
TD: Fracture	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	370	%	ASTM D882
TD: Fracture	1100	%	ASTM D882
Dart Drop Impact	60	g	ASTM D1709
Elmendorf Tear Strength - TD	100	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	120		ASTM D2457

Haze	4.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 - 220	°C	
Mold Temperature	5.00 - 25.0	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	110	°C	
Die Temperature	150	°C	
Extrusion instructions			
Blown FilmScrew L/D relation: 16 to 30:1Compression rate: 3 to 4:1Screen package(Mesh): 40/60/40From the screw to the die: 140°CBlow up ratio: 2 to 3:1Frostline height: at most equivalent to the bubble diameterCast FilmScrew L/D relation: at least 20:1Screw: 180 to 250°CDie: 250 to 290°CChill roll: 40°C			

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