

Braskem PE PLURIS4301

Linear Low Density Polyethylene

Braskem

Message:

Pluris4301 is a Braskem Quaterpolymer produced with Spherilene technology. This grade show unique properties, such as high stiffness associated with toughness. In addition to good processability, also shows a very good bubble stability and very low gel content.

Applications:

Thin films and automatic packaging which require higher stiffness: textile products, toilet paper and others.

Additive:

Antiblocking medium

Slip medium

Process:

Blown Film Extrusion

General Information			
Additive	Moderate caking resistance		
	Moderate smoothness		
Features	Low density		
	Low speed solidification crystal point		
	Rigidity, high		
	Workability, good		
	Moderate caking resistance		
	Moderate smoothness		
Uses	Packaging		
	Films		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD: Fracture, 38 µm	32.0	MPa	ASTM D882
TD: Fracture, 38 µm	33.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	920	%	ASTM D882
TD: Fracture, 38 µm	1500	%	ASTM D882
Flexural Modulus			ASTM D790

1% Secant, MD : 38 μm	310	MPa	ASTM D790
1% Secant, TD : 38 μm	400	MPa	ASTM D790
Elmendorf Tear Strength			ASTM D1922
MD : 38 μm	50	g	ASTM D1922
TD : 38 μm	300	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 38.0 μm)	45		ASTM D2457
Haze	43	%	ASTM D1003
Extrusion instructions			

Recommended Blown Film Extrusion Conditions:

Temperature Profile: 150°C to 170°C

Blow Up Ratio: 2 to 3:1

Die Gap: 1.8 to 2.5 mm

Mass Temperature: 160° to 200°C

It's Recommended to add 20 to 30% LDPE to be obtained excellent optical property

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