Braskem

Data Sheet

Linear Low Density Polyethylene PLURIS4301

Description:
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

Control Properties:

	ASTM Method	Unit	Value
Melt Flow Rate (190/2.16)	D 1238	g/10 min	1.8
Density	D 792	g/cm^3	0.922

Properties:
Blown Film Properties[a]

	ASTM Method	Unit	Value
Tensile Strength at Break (MD/TD)	D 882	MPa	32/33
Elongation at Break (MD/TD)	D 882	%	920/1450
Flexural Modulus – 1% Secant (MD/TD)	D 882	MPa	310/400
Elmendorf Tear Strength (MD/TD)	D 1922	gF	50/300
Haze	D 1003	%	43
Gloss - Angle 60º	D 2457	%	45

(a) 38 µm thickness film, processed in a 40mm screw diameter extruder with blow up ratio of 2.2:1. (MD: Machine Direction; TD: Transversal Direction).

Recommended Processing Conditions:
Blown Film Extrusion
- Temperature profile:.. ..... .from 150 to 170°C
- Blow up ratio:..... .....from 2 to 3:1
- Die gap:.....from 1.8 to 2.5mm
- Mass temperature.....160° to 200°C
- It's recommended to add 20 – 30% LDPE to be obtained excellent optical properties.