

Linear Low Density Polyethylene PLURIS6301

Description:

Pluris6301 is a Braskem Quatropolymer that shows 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:

Frozen bags, high performance structures (coextrusion) for automatic packaging (FFS).

Additive:

Antiblocking medium
Slip medium
Processing Aid medium

Process:

Blown Film Extrusion

Control Properties:

	ASTM Method	Unit	Value
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.85
Density	D 792	g/cm ³	0.919

Properties:

Blown Film Properties^a

	ASTM Method	Unit	Value
Tensile Strength at Break (MD/TD)	D 882	MPa	45/35
Elongation at Break (MD/TD)	D 882	%	920/1260
Flexural Modulus – 1% Secant (MD/TD)	D 882	MPa	240/310
Dart Drop Impact	D 1709	g/F50	198
Elmendorf Tear Strength (MD/TD)	D 1922	gF	110/1060
Haze	D 1003	%	14
Gloss - Angle 60°	D 2457	-	57

(a) 40 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 190 to 220°C
- Blow up ratio:.....from 2 to 3,5:1
- Die gap:.....from 1.8 to 2.5 mm
- Screen package.....40/60/40 mesh
- Mass temperature.....max 220°C

