

Linear Low Density Polyethylene LHB118/21AF

Description:

LHB118/21 AF is a LLDPE copolymer produced by Braskem. It is a ready-to-use product since it contains 10% LDPE. Its additive package was optimized to avoid blocking, even at low thickness. Film obtained from this grade show very good mechanical properties and a good balance between sealability and processability. Very low gel amount.

Additive:

Processing Aid Medium
Antioxidants Medium
Slip Medium
Antiblocking High

Applications:

Frozen bags; general purpose.

Process:

Blown Film Extrusion

Control Properties:

	ASTM Method	Unit	Value
Melt Flow Rate (190/2.16)	D 1238	g/10 min	1.0
Density	D 792	g/cm ³	0.918

Properties:

Blown Film Properties^a

	ASTM Method	Unit	Value
Tensile Strength at Break (MD/TD)	D 882	MPa	40/30
Elongation at Break (MD/TD)	D 882	%	1000/1280
Flexural Modulus – 1% Secant (MD/TD)	D 882	MPa	180/210
Dart Drop Impact	D 1709	g/F50	100
Elmendorf Tear Strength (MD/TD)	D 1922	gF	80/560
Haze	D 1003	%	12
Gloss - Angle 60°	D 2457	%	98

(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 Films

- Temperature Profile:.....from 170 to 190°C
- Blow up Ratio:.....from 2 to 3:1
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- Die Gap:.....40/40 - 100% pure
40/60/40 - Blend
- Mass temperature:.....190°C (max 210°C)

