

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



Final Remarks:

1. This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA.
2. These information reflect typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
4. In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 60785-11-7.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.
8. The content of this Data Sheet replaces previous revisions published for this product.
9. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.