

Linear Low Density Polyethylene LF1020/21AF

Description:

LF1020/21AF is a Linear Low Density Polyethylene, with good balance of mechanical properties, processing performance and sealability.

Additive:

Slip Medium; Antiblocking Medium; Processing Aid Medium

Applications:

Automatic Packaging (FFS); liners; packages for general use; LDPE and HDPE blends.

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	35/30
Elongation at Break (MD/TD)	D 882	%	920/1200
Flexural Modulus – 1% Secant (MD/TD)	D 882	MPa	170/190
Dart Drop Impact	D 1709	g/F50	190
Elmendorf Tear Strength (MD/TD)	D 1922	gF	100/850
Haze	D 1003	%	12
Gloss - Angle 45°	D 2457	%	70

(a) 40 µm thickness film, processed with 10% of LDPE in a 75mm 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 180 to 210°C

-Blow up Ratio: from 2 to 3:1

-Die Gap: from 1.8 to 2.5 mm

-Screen Package: 40/60/60/40

-Mass Temperature: 220°C (max 230°C)

Final Remarks:

- 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.
- 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.
- In some applications, Braskem has developed tailor-made resins to reach specific requirements.
- In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
- For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25087-34-7
- The mentioned values in this report can be changed at any moment without Braskem previous communication.
- 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.
- The content of this Data Sheet replaces previous revisions published for this product.
- This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.

