

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)

