

Low Density Polyethylene BF2021

Description:

BF2021 is a grade that shows excellent processability in cast films.

Applications:

Flat films for diapers; medium mechanical resistance film for general purpose; expanded PE blanket.

Process:

Cast Film Extrusion
Blow molding.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	2.0
Density	D 1505	g/cm ³	0.921

Typical Properties:

Plaque Properties^a

	ASTM Method	Units	Values
Tensile Strength at Break	D 638	MPa	13
Elongation at Break	D 638	%	905
Vicat Softening Temperature at 10 N	D 1525	°C	90

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.

Blown Film Properties^b

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	30/20
Elongation at Break (MD/TD)	D 882	%	290/1000
Dart Drop Impact	D 1709	g/F50	60
Elmendorf Tear Strength (MD/TD)	D 1922	gF	ND ^c /100
Haze	D 1003	%	10
Gloss - Angle 60°	D 2457	-	80

(b) 38 µm thickness film, processed in a 75 mm screw diameter extruder with blow up ratio of 2:1, die gap 1.0 mm, (MD = Machine Direction; TD = Transversal Direction);

(c) ND: Not Determined.

Recommended Processig Conditions:

Cast Film Extrusion

- Tipo de Extrusora:
Screw - relation L/D: min 20:1
- Temperature Profile:
1^a zone: 115°C
Extruder: 260°C
Die: 205 - 260°C

