

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



- Chill Rolls, 40°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 Application Engineering.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 009002-88-4
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. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.

