

Low Density Polyethylene PB681/59

Description:

PB681/59 is a grade produced under high pressure in a tubular reactor. This resin is used for laminating films mainly on paper substrate. It is also used in the extrusion coating process. Films obtained with this product show excellent optical properties and high draw down ability.

Additive:

-Antiblock Medium
-Slip High

Applications:

Lamination film; general purpose.

Process:

Blown Film Extrusion

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	3.8
Density	D 792	g/cm ³	0.922

Typical Properties:

Blown Film Properties^a

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	23/14
Elongation at Break (MD/TD)	D 882	%	370/875
Dart Drop Impact	D 1709	g/F50	75
Elmendorf Tear Strength (MD/TD)	D 1922	gF	685/265
Haze	D 1003	%	7
Gloss - Angle 60°	D 2457	%	-

(a) 40 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);

(b) ND: Not Determined.

Recommended Processing Conditions:

Blown Film Extrusion

- Extruder:
- Screw - relation L/D 16 a 30:1
- Compression Ratio 3 a 4:1
- Screw package(Mesh) 40/60/40
- Temperature Profile:
- 1^a zone 110°C
- Extruder 140°C
- Die 150°C
- Blow up ratio: from 2 to 3:1
- Frostline Height maximum equivalent to bubble diameter

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: 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.