

Linear Low Density Polyethylene FP33

Description:

The FP33 resin is a Linear Low Density Polyethylene for film extrusion with good mechanical properties.

Additive:

Processing aid
Slip
Antiblock

Application:

Thin films and automatic packaging which require higher stiffness: textile products, toilet paper and others. Recommended film thickness: 0.025 to 0.100mm.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	1.8
Density	D 792	g/cm ³	0.932

Typical Properties:

Blow Film Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D-882	MPa	30/30
Elongation at Break (MD/TD)	D-882	%	1110/1530
Tensile Modulus – 1% Secant (MD/TD)	D 882	MPa	280/320
Dart Drop Impact	D 1709	g/F50	ND
Elmendorf tear strength (MD/TD)	D 1922	gF	25/520
Haze	D 1003	%	16
Gloss - Angle 60°	D 2457	%	-

(a) 40 µm thickness film, processed in a 40mm screw diameter extruder with blow up ratio of 2.2:1. (MD: Machine Direction; TD: Transversal Direction).

Recommended Processing Conditions:

The FP-33 resin should be processed on specific extruders for LMDPE. The optimum processing conditions will change according to the type of equipment used the best results easy obtained with a temperature profile between 150 to 190°, and blends with LDPE or MDPE using a ratio between 20 % to 50% allow expressive improvement on optical properties.

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: 25087-34-7
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.