Braskem

Data Sheet
Review 9 (Apr/15)

Linear Low Density Polyethylene IF33

Description:

IF33 is a Linear Low Density Polyethylene, with narrow molecular weight, produced by solution process, for injection molding applications. It offers high fluidity, good flexibility and low warpage. It contains antioxidant additive.

Application:

Resin has been specifically developed for injection molding lids seal and lids for food containers, housewares, containers and general purpose.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	48
Density	D 729	g/cm³	0.931

Typical Properties:

Plaque Propertiesa

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	15
Tensile Elongation at Yield	D 638	%	14
Tensile Strength at Break	D 638	MPa	9
Tensile Elongation at Break	D 638	%	100
Tensile Modulus – 1% Secant	D 790	MPa	550
Shore D Hardness	D 2240	-	51
Notched Izod Impact Strength	D 256	J/m	60
Environmental Stress Cracking Resistanceb	D 1693	h/F50	-
Vicat Softening Temperature at 10 N	D 1525	°C	100
Deflection Temperature under Load at 0.455 MPa	D 648	ºC	52
Rigidity	D 747	MPa	490

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.
(b) Compression molded 2 mm thickness, 0.3 mm notched-plaques; 10% Igepal; 50ºC.

Recommended Processing Conditions:

IF 33 has been developed to be used in the injection molding process under conditions comparable to the Linear Low Polyethylene.
Recommended temperature profile: 150 to 210ºC.

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. The information presented in this Data Sheet reflects 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: 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.