

## Linear Low Density Polyethylene IN34

### Description:

IN34 is a Linear Low density Polyethylene, with narrow molecular, produced by solution process, for injection molding applications.

It offers high fluidity, excellent flexibility and low warpage.

### Application:

It is specially developed for lids fast-cycle molding injection, natural color and dyed for food.

It is also recommended for the market food.

### Control Properties:

	ASTM Methods	Units	Values
Melt Index (190/2.16)	D 1238	g/10 min	48
Density	D 729	g/cm <sup>3</sup>	0.938

### Typical Properties:

#### Plaque Properties<sup>a</sup>

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	17
Tensile Elongation at Yield	D 638	%	12
Tensile Strength at Break	D 638	MPa	9
Tensile Elongation at Break	D 638	%	100
Tensile Modulus – 1% Secant	D 790	MPa	700
Shore D Hardness	D 2240	-	59
Notched Izod Impact Strength	D 256	J/m	40
Vicat Softening Temperature at 10 N	D 1525	°C	110
Deflection Temperature under Load at 0.455 MPa	D 648	°C	53
Rigidity	D 747	MPa	645

(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; 50°C.

### Recommended Processing Conditions:

IN34 was developed to be injected in similar conditions to the Low Density Polyethylene of similar fluidity Recommended temperature profile: 170° to 210 °C. Its excellent processing conditions may vary according to the type of equipment used in the processing, and shall not be considered as a guarantee of efficiency.

### 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.