Braskem Idesa

Datasheet
(January, 2026)

High Density Polyethylene HDB0355

Description:

HDB0355 is a high density polyethylene copolymer developed for blow molding applications. This product is suitable for applications that require a good Enviromental Stress Cracking Resistance (ESCR).

Applications:

containers for household products, Containers for chemical industry (HIC), Containers for pharmaceutical industry, Containers for cosmetic industry

Processes:

Extrusion Blow Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	0.350
Density	ASTM D 792	g/cm³	0.953

Typical Properties[1]

Feature	Method	Units	Values
Tensile Strength at Yield	ASTM D 638	MPa	25
Tensile Strength at Break	ASTM D 638	MPa	20
Strain at Yield	ASTM D 638	%	6
Strain at Break	ASTM D 638	%	515
Elasticity Modulus (Secant 1%)	ASTM D 638	MPa	1250
Flexural Modulus (Secant 1%)	ASTM D 790	MPa	1300
Izod Impact Strength[3]	ASTM D 256/A	J/m	110
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	70
Vicat Softening Point (10 N)	ASTM D 1525	°C	127
ESCR (10% Igepal)[2]	ASTM D 1693	h	7
ESCR (100% Igepal)[2]	ASTM D 1693	h	18
FNCT	ISO 16670	min	100

[1] Test specimens from compression molded plaque according to ASTM D4703.

[2] Condition B.

[3] Test temperature at 23°C.

Final Remarks

1. It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
2. The technical guidance eventually rendered to the Client/Purchaser of the Product by Braskem about the Product does not characterize a performance guarantee for the intended application, nor does it exempt the Client/Purchaser from the responsibilities described in item 1 above.
3. Any application information about the Product does not mean that Braskem knows or has validated the productive process of the Client/Purchaser or the adequacy of the Product for the intended application. All warranties of merchantability or fitness for a particular purpose, express or implied, are expressly excluded.
4. The information provided herein is of the date hereof and Braskem may update, revise or amend the information contained herein at any time and without previous notice. The Client/Purchaser shall consult www.braskem.com to verify any updates to this information.
5. For regulatory information associated with the Product and its source, please consult the Regulatory Information Sheet (RIS). For other requests, please contact Braskem's Technical Services area.
6. The information contained herein is provided based on the best of Braskem's knowledge, indicating typical values of the properties of the Product, and such values shall not be considered absolute or as a guarantee.