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 D1238	g/10 min	0.350
Density	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
Elongation at Yield	ASTM D 638	%	7
Elongation at Break	ASTM D 638	%	500
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	130
ESCR (10% Igepal)[2]	ASTM D 1693	h	7
ESCR (100% Igepal)[2]	ASTM D 1693	h	20
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. The information in this document is provided in good faith and reflects typical values obtained in our laboratories and should not be considered as absolute nor warranted. Only the properties and values mentioned on the certificate of quality are considered as product warranty.

2. In some application, Braskem IDESA has developed resins well-tailored to meet specific requirements.

3. In case of doubts regarding our product use for other applications, please contact our Braskem IDESA technical services serviciostecnicos@braskem.com

4. For information about safety, handling, individual protection equipment, first aid disposal, consult the safety data sheet (SDS) or please contact our Braskem IDESA safety team product.safety@braskem.com CAS Number:2513-02-9

5. The values reported in this document may change without Braskem IDESA communication.

6. Braskem IDESA does not recommended the use of this product for the manufacture of packages, parts or any other used storage or contact with parenteral solution nor with the inside of the human body.

7. The content of this product data sheet replaces the one issued previously.