


Technical Data Sheet
 Rev 06 (June/18)

High Density Polyethylene HDB1052

Description:

HDB1052 is a high molecular weight copolymer grade developed for blow molding applications where a combination of good rigidity and high environmental stress cracking resistance (ESCR) is required.

Resin with certification **UL 94 HB**.

Applications:

High performance blow molded containers typically of 1-60 liters capacity for packaging aggressive products.

Process:

Blow Molding

Control properties:

	Test Methods	Units	Values
Melt Flow Rate (190°C/21.6 kg)	ASTM D 1238	g/10min	10.00
Density	ASTM D 792	g/cm ³	0.952

Typical Properties¹:

	Test Methods	Units	Values
Tensile Strength at Yield	ASTM D 638	MPa	28
Tensile Strength at Break	ASTM D 638	MPa	44
Elongation at break	ASTM D 638	%	>700
Tensile Modulus of Elasticity, Secant 1% Method	ASTM D 638	MPa	1240
Flexural Modulus, Secant 1% Method	ASTM D 790	MPa	1290
Izod Impact Strength ²	ASTM D 256	J/m	>400
Charpy Impact Strength ²	ISO 179-1EA	KJ/m ²	>18
ESCR ³ , 10% Igepal	ASTM D 1693	h	120
ESCR ³ , 100% Igepal	ASTM D 1693	h	>1000
NCLS-Notched Constant Ligament Stress	ASTM F2136	h	138

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

² Test temperature 23°C

³ Condition B

Final Observations:

- 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.
- In some applications, Braskem IDESA has developed resins well-tailored to meet specific requirements.
- In case of doubts regarding our product use or for other applications, please contact our Braskem IDESA technical services serviciostecnicos@braskem.com
- For information about safety, handling, individual protection equipment, first aid and disposal, consult the Safety Data Sheet (SDS) or please contact our Braskem IDESA safety team product.safety@braskem.com. CAS Number: 25213-02-9.
- The values reported in this document may change without Braskem IDESA previous communication.
- Braskem IDESA does not recommend the use of this product for the manufacture of packages, parts or any other product used for storage or contact with parenteral solution nor with the inside of the human body.
- This resin does not contain the substance Bisphenol A (BPA, CAS#80-05-7) in its composition.
- The content of this Product Data Sheet replaces the one issued previously.