

**Technical Data Sheet**
Revision 03 (December/17)**High Density Polyethylene HDB0358****Description:**

HDB0358 is a bimodal high-density polyethylene copolymer grade. It has an outstanding stiffness and environmental stress crack resistance (ESCR) balance making it ideal for use in a wide range of blow moulding applications. This grade is particularly well suited to chemical and detergent packaging as the exceptional ESCR can allow for significant bottle weight reduction.

Application:

Blow molded containers up to 25 liters capacity for packaging chemicals, many household products, oils and foodstuffs.
Sheet and Corrugated Pipe Extrusion.

Process:

Blow Molding and Extrusion.

Control Properties:

	Test Methods	Units	Values
Melt Flow Rate (190°C/2.16Kg)	ASTM D1238	g/10min	0.300
Density	ASTM D792	g/cm ³	0.958

Typical Properties¹:

	Test Methods	Units	Values
Tensile Strength at Yield	ASTM D638	MPa	30
Elongation at break	ASTM D638	%	>500
Tensile Modulus of Elasticity, Secant 1% Method	ASTM D638	MPa	1420
Flexural Modulus, Secant 1% Method	ASTM D790	MPa	1500
Izod Impact Strength	ASTM D256	J/m	140
ESCR ² (IGEPAL 10%)	ASTM D1693	h	400
ESCR ² (IGEPAL 100%)	ASTM D1693	h	>1400
NCLS-Notched Constant Ligament Stress	ASTM F2136	h	111

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

² B Condition

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 serviciotecnico@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.