


Technical Data Sheet
 Revision 02 (December/17)

High Density Polyethylene HDS0255

Description:

HDS0255 is a high density polyethylene copolymer developed for shrink film and blow molding applications. This product is recommended for use in applications that require a combination of high top load strength and good environmental stress crack resistance (ESCR).

Applications:

Shrink film. Household containers, containers for the Chemical Industry (HIC) and for Pharmaceutical and Cosmetics Industry.

Process:

Shrink film. Blow Molding.

Control Properties:

	Test Methods	Units	Values
Melt Flow Rate (190°C/2.16Kg)	ASTM D1238	g/10 min	0.25
Density	ASTM D792	g/cm ³	0.955

Typical Properties¹:

	Test Methods	Units	Values
Tensile Strength at Yield	ASTM D638	MPa	31
Elongation at Break	ASTM D638	%	>600
Flexural modulus, secant method at 1%	ASTM D638	MPa	1330
Izod Impact Strength	ASTM D256	J/m	177
Vicat Softening Point at 10 N	ASTM D1525	°C	129
Deflection Temperature at 0.455 MPa	ASTM D648	°C	72
ESCR 100% IGEPA [®]	ASTM D1693	h	56

¹ Test specimens from compression molded plaque according to ASTM D4703

Final Observations:

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 applications, Braskem IDESA has developed resins well-tailored to meet specific requirements.
3. In case of doubts regarding our product use or for other applications, please contact our Braskem IDESA technical services serviciotecnico@braskem.com
4. 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.
5. The values reported in this document may change without Braskem IDESA previous communication.
6. 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.
7. The content of this Product Data Sheet replaces the one issued previously.