


Technical Data Sheet
 Rev 1 (December/17)

High Density Polyethylene HDG0739

Description:

HDG0739 is a high molecular weight high density polyethylene copolymer with broad bimodal weight distribution developed for Geomembrane segment.

Applications:

Greenhouse film.

Process:

Blown Film Extrusion

Control Properties:	Test Methods	Units	Values
Melt Flow Rate (190°C/2.16 Kg)	ASTM D1238	g/10 min	0.07
Melt Flow Rate (190°C/21.6 Kg)	ASTM D1238	g/10 min	9.5
Density	ASTM D792	g/cm ³	0.943

Typical Properties ¹ :	Test Methods	Uni	Values
Tensile Strength at Yield, TD	ASTM D882	MPa	30
Tensile Strength at Break, MD/TD	ASTM D882	MPa	92/40
Elongation at Break, MD/TD	ASTM D882	%	125/386
Tensile Modulus of Elasticity, Secant 1% MD/DT	ASTM D882	MPa	620/747
Elmendorf Tear Strength, TD	ASTM D1922	gF	100
Dart drop impact	ASTM D1709	gF	90

¹ Film properties tested with a monolayer 12 µm thickness blown film, blow up ratio: 4.5, die gap: 1.2 mm. MT=Machine direction, TD= transversal direction. The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

Typical Properties ² :	Test Methods	Units	Values
Tensile strength at Yield	ASTM D638	MPa	24
Tensile strength at Break	ASTM D638	MPa	7.2
Tensile Modulus of Elasticity, Secant 1% Method	ASTM D638	MPa	1082
Flexural Modulus, Secant 1% Method	ASTM D638	MPa	990
OIT@ 200°C	ASTM D3895	min	287

² Test specimens from compression molded plaque according to ASTM D4703.

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.
- The content of this Product Data Sheet replaces the one issued previously.