High Density Polyethylene HDF8000

Description:

The resin HDF8000 is a high density polyethylene copolymer with high molecular weight and wide bimodal molecular weight distribution designed for blown film segment. Films produced with this resin offer high rigidity, good heat sealing properties and tear propagation resistance.

Applications:

Very thin film on high-speed line, low thickness.

Processes:

Blown Film Extrusion

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	0.045
Melt Flow Rate (190°C/5kg)	ASTM D 1238	g/10 min	0.25
Melt Flow Rate (190°C/21.6kg)	ASTM D 1238	g/10 min	7.5
Density	ASTM D 792	g/cm³	0.949

Typical properties[1]

Feature	Method	Units	Values
Tensile Strength at Yield MD/TD	ASTM D882	MPa	ND/30
Tensile Strength at Break MD/TD	ASTM D882	MPa	60/50
Elongation at Yield MD/TD	ASTM D882	%	ND/7
Elongation at Break MD/TD	ASTM D882	%	330/330
Elasticity Modulus (Secant 1%) MD/TD	ASTM D 882	MPa	675/765
Elmendorf Tear Strength MD/TD	ASTM D1922	gF	18/47
Dart Drop Impact	ASTM D1709/A	g	416

[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.

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.