Braskem

Datasheet
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High Density Polyethylene HD5000N

Description:
HD5000N is a high density homopolymer Polyethylene. It is designed for film extrusion, focused on high stiffness and lower permeability to water vapor. It presents great processability and excellent compatibility with LLDPE and LDPE blends.

Additivation:
Primary and secondary Antioxidants.

Applications:
General use films, Films for packaging that require lower permeability to water vapor, Films for cereal and gelatine packaging, among others

Processes:
Single Layer Tubular Film Extrusion and Coextrusion

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	1.3
Density	ASTM D 792	g/cm³	0.959

Typical Properties - Films:
Blow film Properties (a)

Feature	Method	Units	Values
Tensile Strength at Break (MD/TD)	ASTM D 882	MPa	40/35
Elongation at Break (MD/TD)	ASTM D 882	%	950/800
Flexural Modulus - 1% Secant (MD/TD)	ASTM D 882	MPa	900/1250
Elmendorf Tear Strength (MD/TD)	ASTM D 1922	gF	25/400
Haze	ASTM D 1003	%	50
Water Vapor Transmission Rate (c)	ASTM F 1249	g/m²/24 h	2.3

(a) LDPE: 25 µm thick film, obtained from a 75 mm extruder, with blow up ratio of 2:1, die gap 1 mm and Die rate 1,75 kg/h.cm (MD = Machine Direction and TD = Transversal Direction). (b) ND: Not Determined. (c) 25 µm thick film, temperature: 38° C, 100% RH.

Final Remarks
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2. The technical guidance eventually rendered to the Client/Purchaser of the Product by Braskem about the Product does not characterize a performance guarantee for the intended application, nor does it exempt the Client/Purchaser from the responsibilities described in item 1 above.
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