Braskem

Datasheet
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Linear Low Density Polyethylene LH218

Description:

LH218 is an ethylene alpha-olefin copolymer with a density lower than 0.94, that shows a good balance between optical properties, mechanical properties, sealability and processability, with very low gel contained.

Applications:

Stretch Films, Blends with LDPE, Blends with HDPE, General use packing

Processes:

Blown Film Extrusion, Cast Film Extrusion.

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	2.3
Density	D 792	g/cm³	0.916

Typical Properties - Films:

Blown Film Properties

Feature	Method	Units	Values
Highlight - Ultimate Test (1)(2)	D 4649	%	400
Highlight - Puncture (1)(2)	D 4649	kg	2.6
Highlight - Retention Maximum Force (1)(2)	D 4649	kg	3.1
Highlight - Retention Ending Force (1)(2)	D 4649	kg	2.0
Highlight - Retention Loss (1)(2)	D 4649	%	35
Highlight - Cling (1)(2)	D 4649	g	29
Highlight - Unwind Force (1)(2)	D 4649	kgf	3.7
Highlight - Sond level (1)(2)	D 4649	dB	73
Highlight - Elongation Force (1)(2)	D 4649	kgf	34
Haze	D 882	%	3.0
Gloss - Angle 45º	D 2457	%	95

(1) 23µm thickness film, processed in a 3 layer coextruder (2) Highlight tested at 300%

Typical Properties - Films:

Blown Film Properties[a]

Feature	Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	40/40
Elongation at Break (MD/TD)	D 882	%	1170/1500
Tensile Modulus - 1% Secant (MD/TD)	D 882	MPa	210/240
Dart Drop Impact	D 1709	g/F50	110
Elmendorf Tear Strength (MD/TD)	D 1922	gF	240/520

(a) Film with 38 microns produce in a 40mm extruder and a blow-up ratio of 2.2:1. (MD = extrusion direction and TD = transversal direction).

Final Remarks

1. It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
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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