Braskem

Datasheet
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Linear Low Density Polyethylene FM31D

Description:

The FM31D resin is an ethylene alpha-olefin copolymer with a density lower than 0.94, for blown film extrusion. It has excellent mechanical properties, especially hot tack. It contains processing aid, antiblock, slip and antioxidant additive. Recommended Processing Conditions: The FM31D resin can be processed with polyethylenes on conventional extruders with a maximum ratio of 30%. The best results of low melt index. The recommended temperature profile for blends with LDPE is slightly higher than those ones for the conventional LDPE is slightly higher than those ones for the conventional LDPE (10 to 20ºC). Recommended blow up ratio: 1,8 to 3,0:1.

Applications:

General use packing, Blends with LDPE, Technical films for automatic packaging, Blends with HDPE, General use films

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	1.0
Density	D 792	g/cm³	0.919

Typical Properties - Films:

Blown Film Properties[a]

Feature	Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	30/20
Elongation at Break (MD/TD)	D 882	%	860/1200
Tensile Modulus - 1% Secant (MD/TD)	D 882	MPa	170/200
Dart Drop Impact	D 1709	g/F50	130
Elmendorf Tear Strength (MD/TD)	D 1922	gF	50/760
Haze	D 1003	%	10
Gloss - Angle 60º	D 2457	%	120

(a) Film with 40 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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