


Datasheet

26/12/2018

Linear Low Density Polyethylene FM31D
Description:

The FM31D resin is a Linear Low Density Polyethylene 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 20°C). Recommended blow up ratio: 1,8 to 3,0:1.

Applications:

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

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	1.0
Density	D 792	g/cm ³	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 60°	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. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
2. For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
3. For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
4. The mentioned values in this report can be changed at any moment without Braskem previous communication.