

## Braskem FM31D LLDPE Blown Film Extrusion Polyethylene Copolymer

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Butene, Film

### Material Notes:

The FM31D resin is a linear low-density polyethylene, copolymer of butene-1, produced by the solution process for blown film extrusion. It has excellent mechanical properties, especially hot tack. It contains processing aid, antiblock, slip, and antioxidant additives. Its applications include: general purpose pure and blends; and laminating and automatic packaging of solids and liquids. The FM31D resin can be processed with polyethylene on conventional extruders with a maximum ratio of 30%. The best results are of low melt index. The recommended temperature profile for blends with 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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-FM31D-LLDPE-Blown-Film-Extrusion-Polyethylene-Copolymer.php](http://www.lookpolymers.com/polymer_Braskem-FM31D-LLDPE-Blown-Film-Extrusion-Polyethylene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in <sup>3</sup>	ASTM-D792
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	860 %	860 %	ASTM-D882
Film Elongation at Break, TD	1140 %	1140 %	ASTM-D882
Elmendorf Tear Strength MD	100 g	100 g	ASTM-D1922
Elmendorf Tear Strength TD	380 g	380 g	ASTM-D1922
Elmendorf Tear Strength, MD	4.00 g/micron	102 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	15.2 g/micron	386 g/mil	ASTM-D1922
Dart Drop	3.60 g/micron	91.4 g/mil	ASTM-D1709
Dart Drop Test	90.0 g	0.198 lb	ASTM-D1709
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	ASTM-D882
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ASTM-D882
1% Secant Modulus, MD	150 MPa	21800 psi	ASTM-D882
1% Secant Modulus, TD	170 MPa	24700 psi	ASTM-D882

Optical Properties	Metric	English	Comments
--------------------	--------	---------	----------

Haze Optical Properties	21 % Metric	21 % English	ASTM-D1003 Comments
Gloss	76 %	76 %	Angle 60°; ASTM-D2457

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China