

Braskem PE FM 31 D

Linear Low Density Polyethylene

Braskem

Message:

Description:
The FM31D resin is a Linear Low Density Polyethylene, copolymer of butene-1, produced by solution process for blown film extrusion. It has excellent mechanical properties, especially hot tack. It contains processing aid, antiblock, slip and antioxidant additive.

Application:
General purpose pure and blends; laminating and automatic packaging of solids and liquids.

General Information			
Additive	Processing aid		
	Anti-caking agent		
	Antioxidation		
	slip agent		
Features	Butene comonomer		
	Copolymer		
	smoothness		
	Anti-caking property		
	Antioxidation		
	Workability, good		
	General		
Uses	Packaging		
	Laminate		
	Mixing		
	General		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength			ASTM D882
MD: Fracture	30.0	MPa	ASTM D882
TD: Fracture	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	860	%	ASTM D882

TD: Fracture	1100	%	ASTM D882
Flexural Modulus			ASTM D790
1% Secant, MD	150	MPa	ASTM D790
1% Secant, TD	170	MPa	ASTM D790
Dart Drop Impact	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	100	g	ASTM D1922
TD	380	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	76		ASTM D2457
Haze	21	%	ASTM D1003
Extrusion instructions			

Blow Up Ratio: 1.8-3.0:1

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