

Braskem PE FG 31

Linear Low Density Polyethylene

Braskem

Message:

FG31 is a Linear Low Density Polyethylene, copolymer of butene-1, produced by solution process. Developed for blown film extrusion in blends with polyethylenes. Films obtained with this product show excellent mechanical properties. It contains antioxidant additives.

Applications:

Stretch films; heavy-duty bags; liners; LDPE and HDPE blends and packages for general use.

General Information			
Additive	Processing aid		
	Anti-caking agent		
	Antioxidation		
	slip agent		
Features	Butene comonomer		
	smoothness		
	Anti-caking property		
	Antioxidation		
	General		
	Narrow molecular weight distribution		
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: Broken, 25 µm, blown film	40.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	930	%	ASTM D882
TD: Broken, 25 µm, blown film	1300	%	ASTM D882

Dart Drop Impact	80	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	120	g	ASTM D1922
TD: 25 µm, blown film	400	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 25.0 µm, Blown Film)	107		ASTM D2457
Haze (25.0 µm, Blown Film)	11	%	ASTM D1003
Extrusion instructions			

Blow Up Ratio: 1.8-3.0:1

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