Braskem

Data Sheet

Linear Low Density Polyethylene FG31

Description:

FG31 is a Linear Low Density Polyethylene. 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.

Process:

FG31 resin can be processed with polyethylenes on conventional extruders with a maximum ratio of 30%. The best results are obtained with polyethylene resins of low melt index. The recommended temperature profile for blends with LDPE is slightly higher than those ones for the conventional LDPE (10 to 20ºC).

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.160)	D 1238	g/10 min	1.00
Density	D 792	g/cm³	0.919

Typical Properties:

Blown Film Properties[a]

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	40/30
Elongation at Break (MD/TD)	D 882	%	930/1280
Tensile Modulus – 1% Secant	D 882	MPa	160/180
Dart Drop Impact	D 1709	g/F50	80
Elmendorf Tear Strength (MD/TD)	D 1922	gF	120/400
Haze	D 1003	%	11
Gloss - Angle 60°	D 2457	%	107

(a) 25 µm thickness film, processed in a 40 mm screw diameter extruder with blow up ratio of 2,2:1 (MD = Machine Direction; TD = Transversal Direction)