Braskem PE EF2002

Low Density Polyethylene

Braskem

Message:

EF2002 is a low-density polyethylene (LDPE) with high molecular weight. Has excellent processability, proper of branched polyethylene produced by a high-pressure process. EF2002 resin presents an excellent performance in conventional LDPE extruders, granting low energy consumption during the whole process and allowing the production of packaging with a good dimensional uniformity and an excellent surface finishing.
Application:
High resistance films for industrial packaging, heavy duty bags and plastic canvas. Base resin for agriculture films with big dimensions.
Process:
Blown Film Extrusion

General Information			
Features	Good dimensional stability		
	Low density		
	High molecular weight		
	Workability, good		
	Excellent appearance		
Uses	Packaging		
	Agricultural application		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.920	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.16	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
2% secant, MD: 50 µm	150	MPa	ASTM D882
2% secant, TD: 50 µm	170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 50 µm	30.0	MPa	ASTM D882
TD: Break, 50 µm	25.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 µm	360	%	ASTM D882
TD: Break, 50 µm	740	%	ASTM D882
Dart Drop Impact [1] (50 µm)	200	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	180	g	ASTM D1922

TD : 50 µm	200	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, 50.0 µm)	53		ASTM D2457
Haze	19	%	ASTM D1003

Extrusion instructions

Recommended Blow Film Extrusion Conditions:
Temperature Profile: 170°C to 225°C
Mass Temperature: 190°C to 225°C
Blow up Ratio: 2.0 to 3.0 : 1
Die Gap: 1.0 to 1.5 mm

NOTE

1. F50

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