

Braskem FP33 LLDPE Blown Film Extrusion Polyethylene Copolymer

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

Material Notes:

The FP33 resin is a linear low-density polyethylene, copolymer of butene-1, produced by the solution process for film extrusion with good mechanical properties. It contains processing aid, slip, and antiblock additives. Its applications include thin films and automatic packaging which require higher stiffness: textile products, toilet paper, and others. Recommended film thickness: 0.025 to 0.100mm. The FP33 resin should be processed on specific extruders for LMDPE. The best results can be obtained with a temperature profile between 150 to 190° and blends with LDPE or MDPE using a ratio between 20% to 50%, allowing expressive improvement on optical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-FP33-LLDPE-Blown-Film-Extrusion-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.932 g/cc	0.0337 lb/in ³	ASTM-D792
Melt Flow	1.8 g/10 min	1.8 g/10 min	ASTM-D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	990 %	990 %	ASTM-D882
Film Elongation at Break, TD	1440 %	1440 %	ASTM-D882
Elmendorf Tear Strength MD	20 g	20 g	ASTM-D1922
Elmendorf Tear Strength TD	180 g	180 g	ASTM-D1922
Elmendorf Tear Strength, MD	0.530 g/micron	13.5 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	4.74 g/micron	120 g/mil	ASTM-D1922
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	ASTM-D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM-D882
1% Secant Modulus, MD	320 MPa	46400 psi	ASTM-D882
1% Secant Modulus, TD	380 MPa	55100 psi	ASTM-D882

Optical Properties	Metric	English	Comments
Haze	44 %	44 %	ASTM-D1003
Gloss	45 %	45 %	Angle 60°; ASTM-D2457

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