

Braskem FG31D LLDPE Blown Film Extrusion Polyethylene Copolymer

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

Material Notes:

The FG31D resin is a linear low-density polyethylene, copolymer of butene-1, produced by the solution process for blow film extrusion in blends with polyethylene. It has excellent mechanical properties and contains antiblock, slip, and antioxidant additives. Its applications include polyethylene blends for general purpose use and automatic packaging of solids and liquids. The FG31D resin can be processed with polyethylene on conventional extruders with a maximum ratio of 30%. The best results are obtained with polyethylenes of low melt index.

The recommended temperature profile for blends with LDPE is slightly higher than those ones for the conventional LDPE (10 to 20°C).

Recommended blow up ratio: 1.8 to 3.0:1.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-FG31D-LLDPE-Blown-Film-Extrusion-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM-D792
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	860 %	860 %	ASTM-D882
Film Elongation at Break, TD	1140 %	1140 %	ASTM-D882
Elmendorf Tear Strength MD	100 g	100 g	ASTM-D1922
Elmendorf Tear Strength TD	380 g	380 g	ASTM-D1922
Dart Drop	3.60 g/micron	91.4 g/mil	ASTM-D1709
Dart Drop Test	90.0 g	0.198 lb	ASTM-D1709
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	ASTM-D882
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ASTM-D882
1% Secant Modulus, MD	150 MPa	21800 psi	ASTM-D882
1% Secant Modulus, TD	170 MPa	24700 psi	ASTM-D882

Optical Properties	Metric	English	Comments
Haze	21 %	21 %	ASTM-D1003
Gloss	76 %	76 %	Angle 60°; ASTM-D2457

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