

Braskem FG31 LLDPE Blown Film Extrusion Polyethylene Copolymer

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

Material Notes:

FG31 is a linear low-density polyethylene, copolymer of butene-1, produced by the solution process. It was developed for blown film extrusion in blends with polyethylene. Films obtained with this product show excellent mechanical properties. FG31 contains antioxidant additives. Its applications include: stretch films, heavy-duty bags, liners, and LDPE and HDPE blends and packages for general use. FG31 resin can be processed with polyethylene 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 20°C).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-FG31-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	930 %	930 %	ASTM-D882
Film Elongation at Break, TD	1280 %	1280 %	ASTM-D882
Elmendorf Tear Strength MD	120 g	120 g	ASTM-D1922
Elmendorf Tear Strength TD	400 g	400 g	ASTM-D1922
Elmendorf Tear Strength, MD	4.80 g/micron	122 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	16.0 g/micron	406 g/mil	ASTM-D1922
Dart Drop	3.20 g/micron	81.3 g/mil	ASTM-D1709
Dart Drop Test	80.0 g	0.176 lb	ASTM-D1709
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	ASTM-D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM-D882
1% Secant Modulus, MD	160 MPa	23200 psi	ASTM-D882
1% Secant Modulus, TD	180 MPa	26100 psi	ASTM-D882

Optical Properties	Metric	English	Comments
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Haze Optical Properties	11 % Metric	11 % English	ASTM-D1003 Comments
Gloss	107 %	107 %	Angle 60°; ASTM-D2457

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