

Braskem FC31D LLDPE Blown Film Extrusion Polyethylene Copolymer

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

Material Notes:

The FC31D resin is a linear low-density polyethylene, copolymer of butene -1, produced by the solution process for blow film extrusion. It has excellent mechanical properties, especially hot tack. It contains processing aid, antiblock, slip, and antioxidant additives. Its applications include: general purpose pure or blends; and laminating and automatic packaging of solids and liquids. Recommended Processing Conditions: Pure - The FC31D resin should be processed on specific extruders for LLDPE. The best results are obtained at a melt temperature within the range of 200 to 220°C. Recommended blow up ratio: 1.8 to 3.0:1. Blends - The FC31D resin can be processed with LDPE 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-FC31D-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	0.75 g/10 min	0.75 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	880 %	880 %	ASTM-D882
Film Elongation at Break, TD	1150 %	1150 %	ASTM-D882
Elmendorf Tear Strength MD	150 g	150 g	ASTM-D1922
Elmendorf Tear Strength TD	430 g	430 g	ASTM-D1922
Elmendorf Tear Strength, MD	6.00 g/micron	152 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	17.2 g/micron	437 g/mil	ASTM-D1922
Dart Drop	4.80 g/micron	122 g/mil	ASTM-D1709
Dart Drop Test	120 g	0.265 lb	ASTM-D1709
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	170 MPa	24700 psi	ASTM-D882
1% Secant Modulus, TD	190 MPa	27600 psi	ASTM-D882

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM-D1003
Gloss	95 %	95 %	Angle 60°; ASTM-D2457

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