

Braskem FL31 LLDPE Cast Film Extrusion Polyethylene Copolymer

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

Material Notes:

FL31 is a linear low-density polyethylene, copolymer of butene-1, produced by the solution process. It was developed for cast film extrusion. Films obtained with this product show a good processing performance balanced with good optical and mechanical properties. It contains processing aid and antioxidant additives. Its applications include: stretch films, liners, LDPE and HDPE blends, and packages for general use. Recommended processing conditions for film extrusion are about 220 - 270 °C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-FL31-LLDPE-Cast-Film-Extrusion-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM-D792
Melt Flow	2.3 g/10 min @Load 2.16 kg, Temperature 190 °C	2.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	1100 %	1100 %	ASTM-D882
Film Elongation at Break, TD	1380 %	1380 %	ASTM-D882
Elmendorf Tear Strength MD	100 g	100 g	ASTM-D1922
Elmendorf Tear Strength TD	290 g	290 g	ASTM-D1922
Elmendorf Tear Strength, MD	4.00 g/micron	102 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	11.6 g/micron	295 g/mil	ASTM-D1922
Dart Drop	4.00 g/micron	102 g/mil	ASTM-D1709
Dart Drop Test	100 g	0.221 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	140 MPa	20300 psi	ASTM-D882
1% Secant Modulus, TD	150 MPa	21800 psi	ASTM-D882

Optical Properties	Metric	English	Comments
Haze	35 %	35 %	ASTM-D1003
Gloss	52 %	52 %	Angle 60°; ASTM-D2457

Optical Properties	Metric	English	Comments
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