

Borealis FG5190 Linear Low Density Polyethylene

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

Material Notes:

FG5190 is a Butene Linear Low Density Polyethylene for Film Extrusion. Includes Antioxidant. The grade is developed for medium and heavy duty bags, bags and bin liners, dual stretch films, and film applications demanding high puncture resistance and strength. In mixtures with LD, the grade contribute to improve the draw down, seal strength and avoids bum through problems in shrink film. Applications: heavy-duty sack, liners, and stretch hood film. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FG5190-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ISO 1183
Molecular Weight	133000 g/mol	133000 g/mol	distribution: 4.5 Mw/Mn; GPC
Melt Flow	1.2 g/10 min @Load 2.16 kg, Temperature 190 °C	1.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	12.0 MPa	1740 psi	MD/TD; ISO 527-3
Film Elongation at Break, MD	740 %	740 %	ISO 527-3
Film Elongation at Break, TD	850 %	850 %	ISO 527-3
Tensile Modulus	0.170 GPa	24.7 ksi	MD; ASTM D882-A
	0.210 GPa	30.5 ksi	TD; ASTM D882-A
Coefficient of Friction	0.80	0.80	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	2.55 g/micron	64.8 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	16.56 g/micron	420.6 g/mil	ISO 6383/2
Dart Drop Test	140 g @Thickness 0.0400 mm	0.309 lb @Thickness 0.00157 in	ISO 7765-1
Film Tensile Strength at Break, MD	39.0 MPa	5660 psi	ISO 527-3
Film Tensile Strength at Break, TD	34.0 MPa	4930 psi	ISO 527-3

Optical Properties	Metric	English	Comments
--------------------	--------	---------	----------

Haze Optical Properties	12 % Metric	12 % English	ASTM D1003 Comments
Gloss	95 %	95 %	ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	235 °C	455 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China