

Borealis FG5223 Linear Low Density Polyethylene

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

Material Notes:

FG5223 is a Butene Linear Low Density Polyethylene for Film Extrusion. Includes antioxidant and anti-block additives. This grade is developed for production of lamination film. FG5223 has good heat sealing properties and hot tack strength. By mixing with FG5224 any desired level of friction can be obtained. Applications: lamination films, high clarity shrink film, and food wrap film. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FG5223-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ISO 1183
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
Antiblock Level	1250 ppm	1250 ppm	Borealis Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	12.0 MPa	1740 psi	MD/TD; ISO 527-3
Film Elongation at Break, MD	800 %	800 %	ISO 527-3
Film Elongation at Break, TD	1000 %	1000 %	ISO 527-3
Tensile Modulus	0.145 GPa	21.0 ksi	MD; ASTM D882-A
	0.165 GPa	23.9 ksi	TD; ASTM D882-A
Coefficient of Friction	0.70	0.70	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	2.91 g/micron	73.9 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	13.11 g/micron	333.0 g/mil	ISO 6383/2
Dart Drop Test	260 g @Thickness 0.0700 mm	0.573 lb @Thickness 0.00276 in	ISO 7765-1
Film Tensile Strength at Break, MD	29.0 MPa	4210 psi	ISO 527-3
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	122 °C Metric	252 °F English	ISO 11357-3 Comments
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Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D1003
Gloss	100 %	100 %	ASTM D2457

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