Borealis PE FG5190

Linear Low Density Polyethylene

Borealis AG

Product Description

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 shrinkfilm.

General

Additive	• Antioxidant		
Features	• Antioxidant • Butene Comonomer	• Good Drawdown • High Strength	• Puncture Resistant
Uses	• Film • Heavy-duty Bags	• Liners • Shrink Wrap	• Stretch Wrap
Forms	• Pellets		
Processing Method	• Film Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction			ISO 8295
vs. Itself - Dynamic	0.80		
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	40	µm	
Secant Modulus			ASTM D882A
MD: 40 µm	170	MPa	
TD: 40 µm	210	MPa	
Tensile Stress			ISO 527-3
MD: Yield, 40 µm	12.0	MPa	
TD: Yield, 40 µm	12.0	MPa	
MD: 40 µm	39.0	MPa	
TD: 40 µm	34.0	MPa	
Tensile Elongation			ISO 527-3
MD: Break, 40 µm	740	%	
TD: Break, 40 µm	850	%	
Dart Drop Impact (40 µm)	140	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 40 µm	1.0	N	
TD: 40 µm	6.5	N	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (20°, 40.0 µm)	95		ASTM D2457
Haze (40.0 µm)	12	%	ASTM D1003

Extrusion	Nominal Value	Unit
Melt Temperature	235	°C

Notes

[1] Typical properties: these are not to be construed as specifications.

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