

Borstar® FB2310

Linear Low Density Polyethylene

Borealis AG

Message:

Borstar FB2310 is a high molecular weight linear low density polyethylene film grade combining good and flexible extrusion behaviour, excellent draw down and superior mechanical properties.

For films made of Borstar FB2310 , the high toughness remains in cold conditions.

Borstar FB2310 contains antioxidant.

General Information			
Additive	Antioxidation		
Features	Low Temperature Flexibility		
	High molecular weight		
	Antioxidation		
	Good stripping		
	Good flexibility		
Uses	Packaging		
	Films		
	Agricultural application		
	Food packaging		
	Shrinkable film		
	Heavy packing bag		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.931	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.20	g/10 min	ISO 1133
190°C/21.6 kg	20	g/10 min	ISO 1133
190°C/5.0 kg	0.90	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.40		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Tensile Modulus			ISO 527-3
MD: 40 µm, blown film	300	MPa	ISO 527-3
TD: 40 µm, blown film	400	MPa	ISO 527-3
Tensile Strength			ISO 527-3

MD: 40 μm, blown film	50.0	MPa	ISO 527-3
TD: 40 μm, blown film	40.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 μm, blown film	400	%	ISO 527-3
TD: Broken, 40 μm, blown film	700	%	ISO 527-3
Dart Drop Impact (40 μm, Blown Film)	230	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 40.0 μm ¹	50.0	kN/m	ISO 6383-2
TD : 40.0 μm ²	250.0	kN/m	ISO 6383-2
Instrumental throwing impact-Total Penetration Energy(40.0 μm) ³	200	J/cm	ISO 7765-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	127	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (40.0 μm, Blown Film)	7		ASTM D2457
Haze (40.0 μm, Blown Film)	80	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 210	°C	
Extrusion instructions			
BUR: 3:1FLH: 2 to 4 DDDie Gap: 1 to 1.5 mm			
NOTE			
1.	Blown Film		
2.	Blown Fim		
3.	Blown Film		

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