

Borstar® FB4370

Polyethylene

Borealis AG

Message:

Borstar FB4370 is a polyethylene grade combining excellent extrusion properties with high film stiffness.

Borstar FB4370 contains antioxidant.

General Information			
Additive	Antioxidation		
Features	Rigidity, high		
	Antioxidation		
	Recyclable materials		
Uses	Packaging		
	Films		
	Laminate		
	Mixing		
	Shrinkable film		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.40	g/10 min	ISO 1133
190°C/5.0 kg	2.1	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.40		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
secant modulus			ASTM D882A
MD	450	MPa	ASTM D882A
TD	540	MPa	ASTM D882A
Tensile Strength			ISO 527-3
MD	56.0	MPa	ISO 527-3
TD	39.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture	530	%	ISO 527-3
TD: Fracture	830	%	ISO 527-3
Dart Drop Impact	130	g	ISO 7765-1

Elmendorf Tear Strength			ISO 6383-2
MD	1.5	N	ISO 6383-2
TD	10	N	ISO 6383-2

Additional Information

Film properties are measured on 40 µm blown film produced on a 60 mm W&H; extruder with L/D 30 and die 200 x 1,2 mm, BUR = 3:1, FLH = 2DD.

Extrusion	Nominal Value	Unit
Melt Temperature	190 - 210	°C

Extrusion instructions

Die Gap: 1.2 to 1.5 mm

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