

Borstar® FB4230

Linear Low Density Polyethylene

Borealis AG

Message:

Borstar FB4230 is a linear low density polyethylene film grade combining good and flexible extrusion behaviour, excellent draw down and superior mechanical properties.

Blown film extrusion with Borstar LLDPE is comparable to LDPE, but with better flexibility in film thickness range and draw down.

Applications

Food Packaging, General Packaging, Pouches, Frozen Food Packaging

Borstar FB4230 contains antioxidant.

General Information	
Additive	Antioxidation
Features	Antioxidation
	Good stripping
	Good flexibility
Uses	Packaging
	Films
	Food packaging
Forms	Particle
Processing Method	Film extrusion
	Blow film
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.923	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/21.6 kg	44	g/10 min	ISO 1133
190°C/5.0 kg	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	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	350	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	500	%	ISO 527-3
TD: Broken, 40 μm, blown film	750	%	ISO 527-3
Dart Drop Impact (40 μm, Blown Film)	180	g	ISO 7765-1
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 40.0 μm	70.0	kN/m	ISO 6383-2
TD : 40.0 μm	200.0	kN/m	ISO 6383-2
Instrumental throwing impact-Total Penetration Energy(40.0 μm) ²			ISO 7765-2
150		J/cm	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	124	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (20 °, 40.0 μm, blown film)	10		ASTM D2457
Haze (40.0 μm, Blown Film)	70	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 210	°C	
Extrusion instructions			
Die Gap: 1 to 1.5 mm			
NOTE			
1.	Blown Film		
2.	Blown Film		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

