

Borealis PE FA3221

Low Density Polyethylene

Borealis AG

Message:

FA3221 is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Includes Antioxidant. This grade is developed to give a strong film with balanced shrink properties.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Recyclable Material		
Uses	Agricultural Applications		
	Film		
	Food Packaging		
	Heavy-duty Bags		
	Shrink Wrap		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Dynamic, Blown Film)	0.60		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	130	µm	
Tensile Modulus			ISO 527-3
MD : 130 µm, Blown Film	190	MPa	
TD : 130 µm, Blown Film	190	MPa	
Tensile Stress			ISO 527-3
MD : Break, 130 µm, Blown Film	25.0	MPa	
TD : Break, 130 µm, Blown Film	23.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 130 µm, Blown Film	400	%	
TD : Break, 130 µm, Blown Film	600	%	
Dart Drop Impact (130 µm, Blown Film)	450	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 130 µm, Blown Film	5.0	N	
TD : 130 µm, Blown Film	6.0	N	

Thermal	Nominal Value	Unit	Test Method
Melting Temperature	110	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Puncture Resistance ¹ (125.0 μm)	5.00	J	ASTM D5748
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 200	°C	
NOTE			

1. Blown Film

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