

Borealis PE FA5223

Low Density Polyethylene

Borealis AG

Message:

FA5223 is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Contains Antioxidant and Antiblock additive.
This grade is developed to give strong film for medium duty applications.

General Information			
Additive	Antiblock (850 ppm) 2		
	Antioxidant		
Features	Antiblocking		
	Antioxidant		
	Autoclavable		
	Good Strength		
Uses	Film		
	Food Packaging		
	Heavy-duty Bags		
	Packaging		
	Shrink Wrap		
Forms	Pellets		
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)	1.2	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	0.80		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Film Puncture Energy (40 µm)	2.00	J	ASTM D5748
Secant Modulus			ASTM D882A
MD : 40 µm	180	MPa	
TD : 40 µm	180	MPa	
Tensile Strength			ISO 527-3
MD : 40 µm	26.0	MPa	
TD : 40 µm	23.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 40 µm	300	%	

TD : Break, 40 µm	500	%	
Dart Drop Impact (40 µm)	140	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 40 µm	4.0	N	
TD : 40 µm	2.0	N	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	110	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (40.0 µm)	85		ASTM D2457
Haze (40.0 µm)	8.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 190	°C	

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