# Borealis PE FG5223

### Linear Low Density Polyethylene

#### Borealis AG

#### Message:

FG5223 is a Butene Linear Low Density Polyethylene for Film Extrusion. Includes Antioxidant and Anti-block additives.

This grade is developed for production of lamination film. FG5223 has good heat sealing properties and hot tack strength. By mixing with FG5224 any desired level of friction can be obtained.

General Information			
Additive	Antiblock (1250 ppm) 2		
	Antioxidant		
Features	Antiblocking		
reatures	Antioxidant		
	Butene Comonomer		
	Good Heat Seal		
	Hot Tack Strength		
	Hot rack Strength		
Uses	Film		
	Food Wrap		
	Laminates		
	Shrink Wrap		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	0.90	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	0.70		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	70	μm	
Secant Modulus			ASTM D882A
MD : 70 μm	145	MPa	
TD : 70 μm	165	MPa	
Tensile Strength			ISO 527-3
MD : 70 μm	29.0	MPa	
TD : 70 μm	28.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 70 μm	800	%	

TD : Break, 70 µm	1000	%	
Dart Drop Impact (70 μm)	260	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 70 μm	2.0	N	
TD : 70 μm	9.0	N	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	122	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 70.0 μm)	100		ASTM D2457
Haze (70.0 μm)	10	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 230	°C	

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#### Recommended distributors for this material

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