

Borealis PE FT5230

Low Density Polyethylene

Borealis AG

Message:

FT5230 is a Low Density Polyethylene for Film Extrusion. Tubular Technology. Unmodified.

This grade is developed for the production of packaging film with good optical properties for medium duty film applications.

General Information			
Features	Optical		
	No additive		
Uses	Films		
	Laminate		
	Bags		
	Food packaging		
	Shrinkable film		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	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)	2.50	J	ASTM D5748
Film Puncture Force (40 µm)	66.0	N	ASTM D5748
secant modulus			ASTM D882A
MD : 40 µm	230	MPa	ASTM D882A
TD : 40 µm	260	MPa	ASTM D882A
Tensile Strength			ISO 527-3
MD : 40 µm	27.0	MPa	ISO 527-3
TD : 40 µm	24.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 40 µm	250	%	ISO 527-3
TD: Break, 40 µm	550	%	ISO 527-3
Dart Drop Impact (40 µm)	120	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 40 µm	4.0	N	ISO 6383-2

TD : 40 μm	2.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	112	°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 - 190	°C	
Extrusion instructions			
Draw Down: 25 to 30μ			

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