

Borealis PE FT5236

Low Density Polyethylene

Borealis AG

Message:

FT5236 is a Low Density Polyethylene for Film Extrusion. Tubular Technology. Includes Anti-block and Medium Slip additives.

General Information			
Additive	Erucamide Lubricating Additive (550 ppm)		
	Anti-caking agent (800 ppm) 2		
	Antioxidation		
Features	Anti-caking property		
	Antioxidation		
	Moderate smoothness		
Uses	Films		
	Laminate		
	Bags		
	Food packaging		
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, Blown Film)	0.20		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
secant modulus			ASTM D882A
MD: 40 µm, blown film	230	MPa	ASTM D882A
TD: 40 µm, blown film	260	MPa	ASTM D882A
Tensile Strength			ISO 527-3
MD: 40 µm, blown film	27.0	MPa	ISO 527-3
TD: 40 µm, blown film	24.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	250	%	ISO 527-3
TD: Broken, 40 µm, blown film	550	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	120	g	ISO 7765-1

Elmendorf Tear Strength			ISO 6383-2
MD: 40 µm, blown film	4.0	N	ISO 6383-2
TD: 40 µm, blown film	2.0	N	ISO 6383-2
Impact	Nominal Value	Unit	Test Method
Multi-Axial Instrumented Impact Energy (0.0400mm, Blown Film, total impact penetration energy)	2.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	112	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (40.0 µm, Blown Film)	85		ASTM D2457
Haze (40.0 µm, Blown Film)	8.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 190	°C	
Extrusion instructions			
Draw Down: 30 µm			

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