

Borealis PE FA5224

Low Density Polyethylene

Borealis AG

Message:

FA5224 is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Contains Antioxidant, Anti-block and Medium Slip additives. This grade is developed to give strong film for medium duty applications.

General Information			
Additive	Erucamide Lubricating Additive (450 ppm)		
	Anti-caking agent (850 ppm) 2		
	Antioxidation		
Features	Low density		
	Anti-caking property		
	Antioxidation		
	Recyclable materials		
	Good strength		
	High pressure heating resistance		
	Moderate smoothness		
Uses	Films		
	Bags		
	Food packaging		
Forms	Particle		
Processing Method	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)	0.15		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	ASTM D882A
TD : 40 µm	180	MPa	ASTM D882A
Tensile Strength			ISO 527-3
MD : 40 µm	26.0	MPa	ISO 527-3
TD : 40 µm	23.0	MPa	ISO 527-3

Tensile Elongation			ISO 527-3
MD: Break, 40 μm	300	%	ISO 527-3
TD: Break, 40 μm	500	%	ISO 527-3
Dart Drop Impact (40 μm)	140	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	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 - 190	°C	
Extrusion instructions			
Draw down: 25 to 30 microns			

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