

Borealis PE FA6224

Low Density Polyethylene

Borealis AG

Message:

FA6224 is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Contains Antioxidant, Anti-block and Medium Slip additives. This grade is developed for the production of thin blown films.

General Information			
Additive	Erucamide Lubricating Additive (500 ppm)		
	Anti-caking agent (850 ppm) 2		
	Antioxidation 3		
Features	Anti-caking property		
	Antioxidation		
	High pressure heating resistance		
	Moderate smoothness		
Uses	Packaging		
	Films		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.1	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	0.10		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Film Puncture Energy (40 µm)	1.30	J	ASTM D5748
secant modulus			ASTM D882A
MD : 40 µm	200	MPa	ASTM D882A
TD : 40 µm	210	MPa	ASTM D882A
Tensile Strength			ISO 527-3
MD : 40 µm	26.0	MPa	ISO 527-3
TD : 40 µm	20.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 40 µm	350	%	ISO 527-3

TD: Break, 40 μm	600	%	ISO 527-3
Dart Drop Impact (40 μm)	100	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 40 μm	5.0	N	ISO 6383-2
TD : 40 μm	3.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	111	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (40.0 μm)	85		ASTM D2457
Haze (40.0 μm)	7.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 180	°C	
Extrusion instructions			

drawn down: 25 micron

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