

# Borealis PE FA3223

## Low Density Polyethylene

### Borealis AG



Prospector

#### Product Description

FA3223 is an autoclave, low density, polyethylene grade for film application.

FA3223 is developed to give a strong film with balanced shrink properties for heavy duty film applications.

FA3223 is intended for applications like:

- Heavy duty Bags
- Shrink films
- Liners
- Construction and agricultural films

FA3223 contains talc as antiblocking agent.

#### General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Autoclavable	• Low Density	• Recyclable Material
Uses	• Agricultural Applications	• Film	• Liners
	• Construction Applications	• Heavy-duty Bags	• Shrink Wrap
Forms	• Pellets		
Processing Method	• Blown Film	• Extrusion	

Physical	Nominal Value Unit	Test Method
Density	0.922 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30 g/10 min	ISO 1133

Films	Nominal Value Unit	Test Method
Film Puncture Energy (130 µm)	5.00 J	
Film Puncture Force (130 µm)	130 N	
Secant Modulus - MD (130 µm)	• • 190 190 MPa	ASTM D882
Tensile Strength		ISO 527-3
MD: 130 µm	25.0 MPa	
TD: 130 µm	23.0 MPa	
Tensile Elongation		ISO 527-3
MD: Break, 130 µm	400 %	
TD: Break, 130 µm	600 %	
Dart Drop Impact (130 µm)	450 g	ISO 7765-1
Elmendorf Tear Strength		ISO 6383-2
MD: 130 µm	4.0 N	
TD: 130 µm	6.0 N	

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	96.0 °C	ISO 306/A50
Melting Temperature (DSC)	110 °C	ISO 3146

Extrusion	Nominal Value Unit
Melt Temperature	170 to 200 °C

#### Extrusion Notes

Blow Up Ratio: 1:2.5

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.