

Borealis PE FA3223

Low Density Polyethylene

Borealis AG



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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

Features	• Autoclavable	• Low Density	• Recyclable Material
Uses	• Agricultural Applications • Construction Applications	• Film • Heavy-duty Bags	• Liners • Shrink Wrap
Forms	• Pellets		
Processing Method	• Blown Film	• 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)	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

¹ Typical properties: these are not to be construed as specifications.