

Borealis PE FA5230

Low Density Polyethylene

Borealis AG



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Product Description

FA5230 is an autoclave, low-density, polyethylene grade for the production of packaging film.

FA5230 is developed to give strong film for medium duty film applications.

FA5230 is intended for applications like:

- Fine shrink films
- Carrier-bag films
- Medium duty sacks
- Lamination films / Food packaging

FA5230 contains no additives.

General

Features	• Autoclavable • Good Processability	• Good Strength • Low Density	• Recyclable Material
Uses	• Film	• Packaging	
Forms	• Pellets		
Processing Method	• Blown Film	• Extrusion	

Physical	Nominal Value Unit	Test Method
Density	0.921 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70 g/10 min	ISO 1133

Films	Nominal Value Unit	Test Method
Secant Modulus - MD (40 µm)	200 200 MPa	ASTM D882
Tensile Strength		ISO 527-3
MD: 40 µm	20.0 MPa	
TD: 40 µm	24.0 MPa	
Tensile Elongation		ISO 527-3
MD: Break, 40 µm	300 %	
TD: Break, 40 µm	500 %	
Dart Drop Impact (40 µm)	130 g	ISO 7765-1
Elmendorf Tear Strength		ISO 6383-2
MD: 40 µm	4.0 N	
TD: 40 µm	2.0 N	

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	96.0 °C	ISO 306/A50
Melting Temperature (DSC)	111 °C	ISO 3146

Optical	Nominal Value Unit	Test Method
Gloss (1020 µm)	75	ASTM D2457
Haze (1020 µm)	12 %	ASTM D1003

Additional Information

Coefficient of Friction, ISO 8295, Dynamic: 0.7

Extrusion	Nominal Value Unit
Melt Temperature	160 to 190 °C

Extrusion Notes

Blow Up Ratio: 1:2.5

Notes

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