

# Borealis PE FG5199

## Linear Low Density Polyethylene

### Borealis AG



Prospector

#### Product Description

FG5199 is a Butene Linear Low Density Polyethylene for Film Extrusion. Includes Antioxidant, Anti-Fog and Cling additives.

The grade is developed for blown cling film. Film made from FG5199 is suitable for manual wrapping of various foodstuffs e.g. cheese, meat and vegetables.

#### General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Anti-Fog	• Antioxidant	
Features	• Anti-fogging	• Butene Comonomer	
	• Antioxidant	• High Cling	
Uses	• Film	• Food Wrap	• Laminates
Forms	• Pellets		
Processing Method	• Blown Film	• Film Extrusion	

Physical	Nominal Value Unit	Test Method
Density	0.919 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2 g/10 min	ISO 1133

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	25 µm	
Tensile Stress		ISO 527-3
TD: Yield, 25 µm	11.0 MPa	
MD: 25 µm	32.0 MPa	
TD: 25 µm	28.0 MPa	
Tensile Elongation		ISO 527-3
MD: Break, 25 µm	550 %	
TD: Break, 25 µm	710 %	
Dart Drop Impact (25 µm)	70 g	ISO 7765-1
Elmendorf Tear Strength		ISO 6383-2
MD: 25 µm	0.50 N	
TD: 25 µm	3.8 N	

Thermal	Nominal Value Unit	Test Method
Melting Temperature	121 °C	ISO 11357-3

#### Notes

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