

# Borstar® FB2230

Linear Low Density Polyethylene

Borealis AG

## Product Description:

Borstar FB2230 is a high molecular weight linear low density polyethylene film grade combining good and flexible extrusion behaviour, excellent draw down and superior mechanical properties

For films made of Borstar FB2230 , the high toughness remains in cold conditions.

CAS-No.: 25087-34-7

## Applications

Borstar FB2230 has been developed especially for applications like:

- Agricultural films
- Heavy-duty sack
- Food packaging
- Lamination films
- Frozen food packaging
- General packaging film

## Additives

Borstar FB2230 contains antioxidant.

Availability	<ul style="list-style-type: none"> <li>• Africa &amp; Middle East</li> <li>• Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>• Europe</li> <li>• Latin America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>• Antioxidant</li> </ul>	
Features	<ul style="list-style-type: none"> <li>• Antioxidant</li> <li>• Good Drawdown</li> </ul>	<ul style="list-style-type: none"> <li>• High Molecular Weight</li> <li>• High Toughness</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Agricultural Applications</li> <li>• Film</li> </ul>	<ul style="list-style-type: none"> <li>• Food Packaging</li> <li>• Heavy-duty Bags</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>• Extrusion</li> </ul>	
<b>Physical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>

Density	0.923 g/cm <sup>3</sup>	ISO 1183
Melt		ISO 1133
Mass- Flow Rate (MFR)		
190°C/2 .16 kg	0.20 g/10 min	
190°C/2 1.6 kg	22 g/10 min	
190°C/5 .0 kg	1.0 g/10 min	
<b>Mechanical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Coefficient of Friction (Dynamic, Blown Film)	0.40	ISO 8295
<b>Films</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Tensile Modulus		ISO 527-3
MD : 40 µm, Blown Film	250 MPa	
TD : 40 µm, Blown Film	300 MPa	
Tensile Strength		ISO 527-3
MD : 40 µm, Blown Film	55.0 MPa	
TD : 40 µm, Blown Film	45.0 MPa	
Tensile Elongation		ISO 527-3
MD : Break, 40 µm, Blown Film	450 %	
TD : Break, 40 µm, Blown Film	750 %	
Dart Drop Impact (40 µm, Blown Film)	250 g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>		ISO 6383-2
MD : 40.0 µm	75.0 kN/m	
TD : 40.0 µm	250.0 kN/m	
Instrumented Puncture Test - Total Penetration Energy <sup>2</sup> (40.0 µm)	200 J/cm	ISO 7765-2
<b>Thermal</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Melting Temperature	124 °C	ISO 11357-3

**CÔNG TY CỔ PHẦN SẢN XUẤT TỔNG HỢP AN THÀNH**

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<b>Optical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Gloss (40.0 $\mu$ m, Blown Film)	7	ASTM D2457
Haze (40.0 $\mu$ m, Blown Film)	70 %	ASTM D1003
<b>Extrusion</b>	<b>Nominal Value Unit</b>	
Melt Temperature	190 to 210 °C	
<b>Extrusion Notes</b>		
BUR: 3:1		
FLH: 2 to 4 DD		
Die Gap: 1 to 1.5 mm		
<b>Notes</b>		

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