

## Borealis Borstar® FB2230 LLDPE for Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

### Material Notes:

Borstar BF2230 is a high molecular weight low density polyethylene film grade combining good and flexible extrusion behavior, excellent draw down and superior mechanical properties. Film made from Borstar FB2230 exhibits high dart impact combined with excellent yield and tensile strength and increased stiffness. Its toughness remains also in cold conditions. The film has high seal strength and hot tack force. Borstar FB2230 contains antioxidant. Borstar BF2230 is well suited for a wide range of applications due to its unique balance of properties. The superior mechanical properties will improve the functionality of the films or allow for substantial material saving (down gauging) compared to conventional PEs. Some examples are: industrial liners, heavy duty sacks, compressed packs like diapers or insulation material, deep freeze packaging and agricultural applications. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Borstar-FB2230-LLDPE-for-Film.php](http://www.lookpolymers.com/polymer_Borealis-Borstar-FB2230-LLDPE-for-Film.php)

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in <sup>3</sup>	ISO 1183
Water Vapor Transmission	8.00 g/m <sup>2</sup> /day	0.515 g/100 in <sup>2</sup> /day	At 38°C/90% RH; ISO 15106-2
Oxygen Transmission Rate	5000 cc/m <sup>2</sup> /day	322 cc/100 in <sup>2</sup> /day	At 25°C/0% RH/1 bar; ASTM D3985
Thickness	40.0 microns	1.57 mil	
Melt Flow	0.20 g/10 min	0.20 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
High Load Melt Index	0.90 g/10 min	0.90 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
High Load Melt Index	22 g/10 min	22 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	450 %	450 %	ISO 527-3
Film Elongation at Break, TD	750 %	750 %	ISO 527-3
Secant Modulus, MD	0.250 GPa	36.3 ksi	0.05-1.05%; ISO 527-3
Secant Modulus, TD	0.300 GPa	43.5 ksi	0.05-1.05%; ISO 527-3
Impact	65	65	Puncture Resistance, force (N); ASTM 5748

<b>Puncture Energy Mechanical Properties</b>	<b>5.00 J Metric</b>	<b>3.69 ft-lb English</b>	<b>ASTM 5748 Comments</b>
Elmendorf Tear Strength, MD	0.0750 g/micron	1.91 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	0.275 g/micron	6.99 g/mil	ISO 6383/2
Dart Drop	7.50 g/micron	191 g/mil	ISO 7765/1
Film Tensile Strength at Break, MD	55.0 MPa	7980 psi	ISO 527-3
Film Tensile Strength at Break, TD	45.0 MPa	6530 psi	ISO 527-3

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melting Point	>= 124 °C	>= 255 °F	ISO 11357/03
Vicat Softening Point	101 °C	214 °F	A (10N); ISO 306

<b>Optical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Haze	70 %	70 %	ASTM D1003
Gloss	10 %	10 %	ASTM D2457

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China