

Borealis Borstar® FB2310 LLDPE for Film

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

Material Notes:

Borstar BF2310 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 FB2310 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 FB2310 contains antioxidant. Borstar BF2310 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 and deep freeze packaging. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-FB2310-LLDPE-for-Film.php

Physical Properties	Metric	English	Comments
Density	0.931 g/cc	0.0336 lb/in ³	ISO 1183
Water Vapor Transmission	6.00 g/m ² /day	0.386 g/100 in ² /day	At 38°C/90% RH; ISO 15106-2
Oxygen Transmission Rate	3500 cc/m ² /day	225 cc/100 in ² /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	20 g/10 min	20 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	400 %	400 %	ISO 527-3
Film Elongation at Break, TD	700 %	700 %	ISO 527-3
Secant Modulus, MD	0.300 GPa	43.5 ksi	0.05-1.05%; ASTM D882-A
Secant Modulus, TD	0.400 GPa	58.0 ksi	0.05-1.05%; ASTM D882-A
Impact	65	65	Puncture Resistance, force (N); ASTM 5748

Puncture Energy Mechanical Properties	5.00 J Metric	3.69 ft-lb English	ASTM 5748 Comments
Elmendorf Tear Strength, MD	5.09 g/micron	129 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	25.48 g/micron	647.2 g/mil	ISO 6383/2
Dart Drop	7.50 g/micron	191 g/mil	ISO 7765/1
Film Tensile Strength at Break, MD	50.0 MPa	7250 psi	ISO 527-3
Film Tensile Strength at Break, TD	40.0 MPa	5800 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	>= 127 °C	>= 261 °F	ISO 11357/03
Vicat Softening Point	108 °C	226 °F	A (10N); ISO 306

Optical Properties	Metric	English	Comments
Haze	80 %	80 %	ASTM D1003
Gloss	10 %	10 %	ASTM D2457

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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