

Borealis Borstar® FB4230 LLDPE for Film

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

Material Notes:

Borstar FB4250T is a high molecular weight linear low density polyethylene grade combining good extrusion properties, excellent draw properties and good mechanical strength. Film made from Borstar FB4250T exhibits a good balance between dart impact combined with excellent yield and tensile strength and improved stiffness. Its toughness also remains in cold climate conditions. The film has good seal strength, wide sealing window and good hot tack force. In addition to the well know Borstar properties, Borstar FB4250T also give good optical properties. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-FB4230-LLDPE-for-Film.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ISO 1183
Water Vapor Transmission	8.00 g/m ² /day	0.515 g/100 in ² /day	At 38°C/90% RH; ISO 15106-2
Oxygen Transmission Rate	5000 cc/m ² /day	322 cc/100 in ² /day	At 25°C/0% RH/1 bar; ASTM D3985
Thickness	40.0 microns	1.57 mil	
Melt Flow	0.40 g/10 min	0.40 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	2.0 g/10 min	2.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
High Load Melt Index	40 g/10 min	40 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	500 %	500 %	ISO 527-3
Film Elongation at Break, TD	750 %	750 %	ISO 527-3
Secant Modulus, MD	0.300 GPa	43.5 ksi	0.05-1.05%; ASTM D882-A
Secant Modulus, TD	0.350 GPa	50.8 ksi	0.05-1.05%; ASTM D882-A
Impact	60	60	Puncture Resistance, force (N); ASTM 5748
Puncture Energy	4.00 J	2.95 ft-lb	ASTM 5748
Elmendorf Tear Strength, MD	10.19 g/micron	258.8 g/mil	ISO 6383/2

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, TD	22.93 g/micron	582.4 g/mil	ISO 6383/2
Dart Drop	5.00 g/micron	127 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	>= 124 °C	>= 255 °F	ISO 11357/03
Vicat Softening Point	104 °C	219 °F	A (10N); ISO 306

Optical Properties	Metric	English	Comments
Haze	70 %	70 %	ASTM D1003
Gloss	10 %	10 %	ASTM D2457

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