



Borstar® FB1350

Enhanced Polyethylene High Performance Film Resin

FILM

RESIN PROPERTIES ⁽¹⁾

	Method	Unit	Typical Value
Melt Flow Index	ASTM D1238	g/10 min	–
190°C/2.16 kg	–	–	0.15
190°C/5.0 kg	–	–	0.6
190°C/21.6 kg (HLMI)	–	–	15
Density	ASTM D792	g/cm ³	0.935
Melting Temperature	ASTM D3418	°F	261

FILM PROPERTIES ^{(1) (2)}

	Method	Unit	Typical Value
Dart Impact	ASTM D1709	g	400
Elmendorf Tear	ASTM D1922	g (MD/TD)	100 / 710
Tensile Strength at Break	ASTM D882	psi (MD/TD)	6,400 / 4,800
Elongation at Break	ASTM D882	% (MD/TD)	540 / 800
Tensile 1% Sec Modulus	ASTM D882	psi (MD/TD)	62,000 / 76,000
Haze	ASTM D1003	%	84
Gloss (20°)	ASTM D2457	–	5
Coefficient of Friction	ISO 8295	–	0.4
ESCR ⁽³⁾	ASTM D1693, B	hr	>5,000

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) Film was produced at 1.6 mil with a 3:1 BUR, FLH =4DD, Die gap 1.2 mm.

(3) Environmental Stress Crack Resistance (ESCR)

All tests were run under laboratory conditions using American Society for Testing and Materials standards (where applicable) or internal testing procedures. The data is offered in good faith but is intended as a general guide only, and does not necessarily represent results that may be obtained elsewhere. The use of Bayport Polymers LLC ("Baystar") products must be guided solely by the user's own methods for selection of proper formulation to ascertain fitness for any specific application. Baystar disclaims any responsibility for misuse or misapplication of its products and the user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained in the data or the use of the product. The data is provided without reference to any intellectual property issues, as well as federal, state, or local laws which may be encountered in the use thereof. BAYSTAR MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. Baystar's liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited, at customer option, to replacement of nonconforming goods or refund not to exceed the purchase price plus transportation charges thereon in respect to any material subject to a claim. In addition to any prohibitions of use (if any), Baystar may further prohibit or restrict the sale of its products into certain applications. For further information, please contact your Baystar representative. All products supplied by Baystar are subject to its standard terms and conditions set out in the contract or applicable purchase order. Baystar is a registered trademark of Bayport Polymers LLC. Borstar is a registered trademark of Borealis AG. This document may not be distributed, displayed (in any form including a website), copied, altered, or reproduced in whole or in part without Baystar's prior written authorization. To the extent Baystar specifically authorizes distributing, displaying and/or copying this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information.

CHARACTERISTICS:

- Excellent impact strength-stiffness balance
- Toughness at low temperature
- Good sealing properties
- Superior ESCR & NCTL
- Easy processability, excellent draw down and bubble stability without PPA

APPLICATIONS:

- Heavy-duty shipping sacks
- Form fill seal packaging
- Frozen food packaging
- Lamination / stand up pouches
- Boutique bags
- Shrink film
- Industrial films
- Geomembranes
- Blending
- Tubing
- Food packaging
- Agricultural
- Drip irrigation

