



Borstar[®] BB2588

Multi-modal High Density Polyethylene for Blow Molding

BLOW MOLDING

RESIN PROPERTIES ⁽¹⁾

	Method	Unit	Typical Value
Melt Flow Index	ISO 1133	g/10 min	–
190°C/2.16 kg	–	–	0.22
190°C/5.0 kg	–	–	0.9
190°C/21.6 kg (HLMI)	–	–	23.0
Melting Point	ISO 11357/03	°C	132
Density	D-792	g/cm ³	0.958

PHYSICAL PROPERTIES ⁽¹⁾⁽²⁾

	Method	Unit	Typical Value
Tensile Modulus (1 mm/min)	ISO 527-2	MPa	1,400
Tensile Stress at Yield (50 mm/min)	ISO 527-2	MPa	30.0
Tensile Strain at Yield (50 mm/min)	ISO 527-3	%	8.0
Flexural Modulus (2 mm/min)	ISO 178	MPa	1,400
IZOD Notched Impact (23 °C)	ASTM D256	J/m	165
Shore Hardness (D-3 sec)	ASTM D2240	–	66
VICAT Softening Point A50 (10 N)	ISO 306	°C	127
ESCR ⁽³⁾ 10%, F50	ASTM D1693-B	hrs	>1,000

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

(2) The data listed were determined on compression-molded specimens and may, therefore, vary from specimens taken from molded articles.

(3) Environmental Stress Crack Resistance (ESCR).

CHARACTERISTICS:

- Containers up to 10 Liters
- High stiffness
- Superior ESCR
- Excellent organoleptics

APPLICATIONS:

- Detergents
- Cleaners
- Motor oil
- Cosmetics
- Personal care
- Household industrial chemical
- Industrial Chemical
- Food packaging – juice, milk

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.

