Polyethylene
Bormed™ HE2581-PH

Description
Bormed HE2581-PH is a high density polyethylene intended for blow moulding products with high stiffness and very good environmental stress crack resistance (ESCR) Products from this grade can be produced by both IBM and ISBM.

Applications

Pharmaceutical & diagnostic packaging
Containers for fine chemicals

Bottles and containers up to 10 litres

Special features

Good stress crack resistance
High stiffness

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	958 kg/m3	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	0,3 g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	1,3 g/10min	ISO 1133
Melt Flow Rate (190 °C/21,6 kg)	28 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.400 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.300 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	8 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	29 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	80 °C	ISO 75-2
Environmental Stress Crack Resistance (Antarox 10 %), (F50),	100 h	ASTM D 1693-A
Hardness, Shore D	65	ISO 868

Processing Techniques
Following parameters should be used as guidelines:

Bormed HE2581-PH is easy to extrude and can be used in all conventional blow-moulding machines

Barrel	170 - 190 °C
Die	175 - 190 °C
Melt temperature	170 - 200 °C

Borealis AG | Wagramerstrasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

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Storage
Bormed HE2581-PH should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety
The product is not classified as a dangerous preparation.

Recycling
The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borealis representative.

Related Documents
The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Safety Data Sheet
Recovery and disposal of polyolefins
Information on emissions from processing and fires
Statement on compliance to food contact regulations
Statement on polymer additives and BSE
Statement on chemicals, regulations and standards
Statement on compliance to regulations on medical use

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Disclaimer

The product(s) mentioned herein are not intended for use as medical implant material or implantable medical devices and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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