

PRODUCT DATA SHEET

07.10.2016 Ed.2

Polyethylene **BB2541**

Description

BB2541 is a high density polyethylene with very high ESCR This product is intended for blow moulding.

Applications

Household and chemical containers such as detergents,
cleaners, motor oils
Industrial chemicals

Bottles and containers up to 10 litres

Special Features

High stress crack resistance

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	954 kg/m ³	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	0,3 g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	1,5 g/10min	ISO 1133
Melt Flow Rate (190 °C/21,6 kg)	32 g/10min	ISO 1133
Flexural Modulus (1 mm/min)	1.200 MPa	ISO 178
Tensile Modulus	1.100 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	9 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	25 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	75 °C	ISO 75-2
Environmental Stress Crack Resistance (, AntaroX 10 %, F50, Bottle Test) ¹	500 h	ASTM D 1693-A
Environmental Stress Crack Resistance (, AntaroX 10 %, F0, Bell Test) ²	1.000 h	ASTM D 1693-A
Hardness, Shore D	64	ISO 868

¹ Measured on blow moulded round 1 litre bottles of 0,5 mm

² Measured on compression moulded specimens acc. to ISO 1872-2

Processing Techniques

Following parameters should be used as guidelines:

BB2541 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 | Wagramer Strasse 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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BB2541**Storage**

BB2541 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 dangerous.

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" / "Product safety information 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" / "Product safety information sheet"
Statement on compliance to food contact regulations

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications 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 any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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