



# 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 <sup>3</sup> | 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) | 500 h                 | ASTM D 1693-A |
| Hardness, Shore D                                           | 64                    | ISO 868       |

## 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 |

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## 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.

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