



# Polyethylene BorPure™ MB5568

High Density Polyethylene for Injection and Compression Moulding

## Description

**BorPure MB5568** is a multimodal, high-density polyethylene intended for injection and compression moulding with strong focus on organoleptic performance in combination with excellent ESCR. This grade is especially designed for beverage caps and closures for carbonated soft drinks and water.

## Applications

**BorPure MB5568** has been developed especially for applications like:

Caps and closures

## Special features

Good impact strength  
Excellent stress crack resistance

Excellent organoleptic properties

## Physical Properties

| Property                                                   | Typical Value         | Test Method   |
|------------------------------------------------------------|-----------------------|---------------|
| Data should not be used for specification work             |                       |               |
| Density                                                    | 956 kg/m <sup>3</sup> | ISO 1183      |
| Melt Flow Rate (190 °C/2,16 kg)                            | 0,8 g/10min           | ISO 1133      |
| Tensile Modulus (1 mm/min)                                 | 1.000 MPa             | ISO 527-2     |
| Tensile Strain at Yield (50 mm/min)                        | 9 %                   | ISO 527-2     |
| Tensile Stress at Yield (50 mm/min)                        | 26 MPa                | ISO 527-2     |
| Full Notch Creep-Test (6 MPa, 50 °C),                      | 65 h                  | ISO 16770     |
| Environmental Stress Crack Resistance (Igepal 10 %), (F50) | 750 hrs               | ASTM D 1693-B |

## Processing Techniques

The actual conditions will depend on the type of equipment used.

### Compression Moulding

Melt temperature 180 - 200 °C  
Mould temperature 10 - 40 °C  
Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters

### Injection Moulding

This product is easy to process with standard injection moulding machines.

Melt temperature 190 - 250 °C  
Mould temperature 10 - 40 °C  
Injection speed As high as possible.

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## Storage

**BorPure MB5568** 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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product.

## 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.

## 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.**

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