



# Polyethylene BorPure™ MB5569

## Description

**BorPure MB5569** 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, teas and juices. It contains slip agent for optimum torque performance of the cap. Material is not recommended to be used for bottled water caps.

## Applications

**BorPure MB5569** 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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Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters

## Storage

**BorPure MB5569** 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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