PRODUCT DATA SHEET

20.12.2017 Ed.2

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. The grade does not contain slip or antistatic agent.

CAS-No. 25087-34-7

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 Data should not be used for specification work	Test Method
Density	956 kg/m³	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

BorPure is a trademark of the Borealis group.

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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.

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

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.

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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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