



Polyethylene
BorPure™ MB7541
High Density Polyethylene for Injection Moulding

Description

BorPure MB7541 is a bimodal, high-density polyethylene intended for injection and compression moulding. This grade combines excellent organoleptic properties, environmental stress crack resistance and superior flow properties with good impact strength even at low temperatures. The improved processability, even at low melt temperature, allows energy savings and faster cycle time.

CAS-No. 25087-34-7

Applications

Caps and closures for Beverage food and Industrial packaging
Transport packaging

Consumer and industrial articles for demanding environment

Special Features

Good organoleptic properties
Good stress crack resistance

Good impact strength

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)	4 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	850 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	10 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	22 MPa	ISO 527-2
Tensile Impact Strength, notched (23 °C)	80 kJ/m ²	ISO 8256/1A
Heat Deflection Temperature (0,45 MPa)	65 °C	ISO 75-2
Full Notch Creep-Test (6 MPa, 50 °C), (Arcopal N110 2 %)	12 h	ISO/DIS 16700-2000
Environmental Stress Crack Resistance (, Igepal 10 %, F50)	40 h	ASTM D 1693-B
Hardness, Shore D	61	ISO 868

Processing Techniques

BorPure MB7541 is easy to process with standard injection moulding machines.

Following moulding parameters should be used as guidelines:

Melt temperature	190 - 250 °C
Mould temperature	10 - 40 °C

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Injection speed

As high as possible.

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

Storage

BorPure MB7541 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.

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"

Recovery and disposal of polyolefins

Information on emissions from processing and fires

Statement on chemicals, regulations and standards

Statement on compliance to food contact regulations



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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.

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