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 Data should not be used for a | Test Method specification work |
|--|--|-----------------------------------|
| Density | 954 kg/m³ | 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 Stength, notched (23 °C) | 80 kJ/m² | 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 temperature190 - 250 °CMould temperature10 - 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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