



# Polyethylene Bormed™ LE6609-PH

## Description

**Bormed LE6609-PH** is a resin intended for evaluation for use in Healthcare applications.

Bormed LE6609-PH is an additive free low density polyethylene typically used in blow moulding articles . Material is characterised with a balanced inflexibility to facilitate to collapsibility of containers. Bottles and ampoules made from Bormed LE6609PH can be steam sterilised at temperatures above 110 °C. Products made from Bormed LE6609-PH can be sterilised by using ethylene oxide or radiation up to 35 kGy.

## Applications

**Bormed LE6609-PH** has been evaluated according to different regulations and norms. Typical applications are mentioned below for Medical devices or Pharmaceutical & Diagnostic packaging. However, Borealis should be consulted for final approval to evaluate the use of Bormed LE6609-PH .

Bottles for irrigation solutions  
Bottles for IV-solutions

Ampoules for injectable solutions

This grade may only be used for the applications listed in the Product Datasheet and only to the extent that the application is within the scope of the tests set out in the Statement on Compliance to Regulations on Medical Use for that grade. If an application is not listed in the Product Datasheet, the grade can be used for such application only after express written consent of the Borealis Marketing Manager, Healthcare. Borealis prohibits the use of any healthcare grade product in an implantable device that is introduced into the human body by surgical intervention and that is intended to remain in place following surgical procedure.

## Special features

No additives

## Physical Properties

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density	930 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	0,3 g/10min	ISO 1133
Flexural Modulus	330 MPa	ISO 178
Tensile Modulus (1 mm/min)	350 MPa	ISO 527-2
Tensile Stress at Yield (50 mm/min)	14 MPa	ISO 527-2
Heat Deflection Temperature	54 °C	ISO 75-2
Hardness, Shore D	53	ISO 868

## Processing Techniques

Following moulding parameters should be used as guidelines:

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Bormed LE6609-PH is easy to extrude and can be used in all conventional blow-moulding machines  
Melt temperature range 165 - 200 °C

## Storage

**Bormed LE6609-PH** 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, recovery and disposal of the products. For more information, contact your Borealis representative.

## 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

General statement on compliance to food contact regulations

Statement on compliance to regulations on medical use



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**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.