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Polyethylene Bormed™ LE6601-PH

Description

Bormed LE6601-PH is a resin intended for evaluation for use in Healthcare applications.

Bormed LE6601-PH is an additive free low density polyethylene which is used to produce soft and flexible packages for pharmaceutical products. The material can be converted via blow moulding, including BFS technology, or IBM into small bottles or ampoules. However, material can as well be used in injection moulding and blown film process. The flexibility of the materials will facilitate the dosing of the medicine when used in ampoules and bottles. Articles made from Bormed LE6601-PH can be steam sterilised at maximum 105 °C. Material can be sterilised with ethylene oxide as well with radiation up to 35 kGy.

Applications

Bormed LE6601-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 LE6601-PH.

Ampoules and mono-dose for eye, nose and ear drops
Small bottles for pharmaceutical & diagnostic products

Bottles for lens cleaning liquid

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
flexibility

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	922 kg/m ³	
Melt Flow Rate (190 °C/2,16 kg)	1,5 g/10min	ISO 1133
Flexural Modulus	200 MPa	ISO 178
Tensile Modulus (1 mm/min)	240 MPa	ISO 527-2
Tensile Stress at Yield (50 mm/min)	10 MPa	ISO 527-2
Heat Deflection Temperature	49 °C	ISO 75-2

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Processing Techniques

Following moulding parameters should be used as guidelines:

Bormed LE6601-PH is easy to extrude and can be used in all conventional blow-moulding machines
Melt temperature range 165 - 200 °C

Storage

Bormed LE6601-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 product. 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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