Bormed LE6600-PH is a resin intended for evaluation for use in Healthcare applications.

Bormed LE6600-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. Bormed LE6600-PH may be sterilized by steam, ethylene oxide or gamma radiation.

CAS-No. 9002-88-4

Applications
Bormed LE6600-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 LE6600-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

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>919 kg/m³</td>
<td>ISO 1183</td>
</tr>
<tr>
<td>Melt Flow Rate (190 °C/2.16 kg)</td>
<td>1.5 g/10min</td>
<td>ISO 1133</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>250 MPa</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Tensile Modulus (50 mm/min)</td>
<td>250 MPa</td>
<td>ISO 527-2</td>
</tr>
<tr>
<td>Tensile Stress at Yield (50 mm/min)</td>
<td>10 MPa</td>
<td>ISO 527-2</td>
</tr>
<tr>
<td>Heat Deflection Temperature</td>
<td>41 °C</td>
<td>ISO 75-2</td>
</tr>
</tbody>
</table>

Data should not be used for specification work.
Processing Techniques
Following moulding parameters should be used as guidelines:

Bormed LE6600-PH is easy to extrude and can be used in all conventional blow-moulding machines
Melt temperature range 165 - 200 °C

Storage
Bormed LE6600-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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Disclaimer

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.