



Polypropylene **Bormed™ HD800CF**

Description

Bormed HD800CF is a polypropylene homopolymer

The current version of Bormed HD800CF has been scheduled for deletion.

Please use Bormed HD800CF-11 and refer to associated documentation for new projects.

In case of questions, please contact either your responsible Borealis Sales Manager and/or Application Development Engineer.

This grade is suitable for the manufacturing of non-oriented cast films on chill roll process and blown films on tubular water quenching process. This grade can also be processed using injection moulding technology.

CAS-No. 9003-07-0

Applications

Bormed HD800CF 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 HD800CF .

Medical device packaging
Closures
Pouches for Continuous Ambulatory Peritoneal Dialysis

Parenteral nutrition bags
Pouches for IV solutions
Secondary packaging

The customer should be aware that Bormed products may only be used in applications which are pre-approved for evaluation by Borealis received in the form of a risk assessment form (RAF) review response. Without such pre-approval, no use of the grade shall be made. In case of doubt, the customer should seek pre-approval for evaluation from Borealis to proceed through their Sales or technical contact. Borealis makes no warranties beyond what is contained in this product datasheet and the customer is responsible for reading and accepting the disclaimer as contained in this product datasheet.

Special Features

High gloss
Low haze
Very good heat deformation resistance

Sterilisability by means of water steam
High stiffness
High water vapour barrier

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Melt Flow Rate (230 °C/2,16 kg)	8 g/10min	ISO 1133
Flexural Modulus ¹	1.400 MPa	ISO 178
Melting temperature (DSC)	164 °C	ISO 11357-3

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Molecular weight distribution

Medium

¹ Measured on injection moulded specimens, conditioned at 23 °C and 50 % relative humidity.**Film Properties**

Specific film values evaluated on chill roll films, produced with Borealis internal standard conditions with a thickness of 50 µm. When compared to films which were produced under other conditions. It should be taken into account that the film properties are strongly dependent on the processing conditions.

Property		Typical Value	Test Method
		Data should not be used for specification work	
Instrumented puncture test	Total Penetration Energy	10 J/mm	ISO 7765-2
Haze		< 2 %	ASTM D 1003
Gloss at 20 degree (of arc)		> 110	ASTM D 2457
Tensile Strain at Break	MD	600 %	ISO 527-3
Tensile Strain at Break	TD	650 %	ISO 527-3
Tensile Strength	MD	45 MPa	ISO 527-3
Tensile Strength	TD	40 MPa	ISO 527-3
Tensile Modulus	MD	800 MPa	ISO 527-3
Tensile Modulus	TD	800 MPa	ISO 527-3
Coefficient of friction (Film/Film)		> 0,7	ISO 8295

Storage

Bormed HD800CF 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.