



Polypropylene BormedTM TD109CF

Description

Bormed TD109CF is a propylene alpha olefin copolymer.

This grade is suitable for the manufacturing of non-oriented cast films on chill roll process and blown films on tubular water quenching process.

CAS-No. 25895-47-0

Applications

Bormed TD109CF 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 TD109CF.

Medical device packaging

Pouches for IV 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

Excellent optical properties
Low sealing initiation temperature
High seal strength and hot tack force

Wide sealing window
Sterilisability by means of water steam

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Melt Flow Rate (230 °C/2,16 kg)	6,0 g/10min	ISO 1133
Flexural Modulus ¹	700 MPa	ISO 178
Melting temperature (DSC)	131 °C	ISO 11357-3
Molecular weight distribution	Medium	

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

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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	12 J/mm	ISO 7765-2
Haze		< 0,5 %	ASTM D 1003
Gloss at 20 degree (of arc)		> 130	ASTM D 2457
Tensile Strain at Break	MD	450 %	ISO 527-3
Tensile Strain at Break	TD	470 %	ISO 527-3
Tensile Strength	MD	30 MPa	ISO 527-3
Tensile Strength	TD	20 MPa	ISO 527-3
Tensile Modulus	MD	470 MPa	ISO 527-3
Tensile Modulus	TD	490 MPa	ISO 527-3
Coefficient of friction (Film/Film)		> 0,7	ISO 8295

Storage

Bormed TD109CF 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.

More information on storage is found in our "Safety data sheet" / "Product safety information sheet".

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.

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**Polypropylene****Bormed TD109CF****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"
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations
Statement on compliance to regulations on medical use
Statement on polymer additives and BSE

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.

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