PRODUCT DATA SHEET

Polypropylene
Bormed™ RD804CF

Description
Bormed RD804CF is a random copolymer with low ethylene content.

The current version of Bormed RD804CF has been scheduled for deletion.
Please use Bormed RD804CF-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, blown films on tubular water quenching process as well as injection moulding and ISBM (2-stage process) for ampoules and bottles.

CAS-No. 9010-79-1

Applications
Bormed RD804CF 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 RD804CF .

Medical device packaging
Pouches for Continuous Ambulatory Peritoneal Dialysis
Parenteral nutrition bags
Pouches for IV solutions
Extension and connection tubings

Secondary packaging
Caps and closures
Bottles/ampoules for injectable solutions
Ampoules/small bottles for eye, ear & nose drops
Bottles for IV-solutions

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

Good optical properties
Good impact strength

High water vapour barrier
Sterilisability by means of water steam

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Melt Flow Rate (230 °C/2,16 kg)	8 g/10min	ISO 1133
Flexural Modulus [1]	1.000 MPa	ISO 178
Melting temperature (DSC)	150 °C	ISO 11357-3

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Molecular weight distribution	Narrow

[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 Data should not be used for specification work	Test Method
Instrumented puncture test	Total Penetration Energy		17 J/mm	ISO 7765-2
Haze			1,5 %	ASTM D 1003
Gloss at 20 degree (of arc)			> 130	ASTM D 2457
Tensile Strain at Break		MD	550 %	ISO 527-3
Tensile Strain at Break		TD	600 %	ISO 527-3
Tensile Strength		MD	40 MPa	ISO 527-3
Tensile Strength		TD	30 MPa	ISO 527-3
Tensile Modulus		MD	600 MPa	ISO 527-3
Tensile Modulus		TD	600 MPa	ISO 527-3
Coefficient of friction (Film/Film)			> 0,7	ISO 8295

Storage

Bormed RD804CF should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation with resulting odour generation and colour changes.
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.