Polypropylene

Bormed™ RD804CF-11

Description

Bormed RD804CF-11 is a random copolymer with low ethylene content.

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-11 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-11 .

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

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

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
Molecular weight distribution	Narrow	

[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 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-11 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.

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