Polypropylene
RB709CF

Description
RB709CF is a random copolymer

CAS-No. 9010-79-1

Applications
RB709CF is recommended for:

Food packaging
Lamination films
Textile packaging film
Sealing layer

Additives
RB709CF does not contain slip or antiblock additives.

Special features
RB709CF is optimised to deliver:

Excellent optical properties
Low sealing initiation temperature
Wide sealing window
Good stiffness

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Melt Flow Rate (230 °C/2,16 kg)	1,5 g/10min	ISO 1133
Flexural Modulus [1]	650 MPa	ISO 178
Melting temperature (DSC)	140 °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 blown films, produced with Borealis internal standard conditions with a thickness of 50 µm.

Property			Typical Value Data should not be used for specification work	Test Method
Dart Drop			80 g	ISO 7765-1
Instrumented puncture test	Total Penetration Energy		6 J/mm	ISO 7765-2
Haze			< 4 %	ASTM D 1003
Gloss at 20 degree (of arc)			> 80	ASTM D 2457
Tensile Strain at Break		MD	600 %	ISO 527-3
Tensile Strain at Break		TD	600 %	ISO 527-3
Tensile Strength		MD	35 MPa	ISO 527-3
Tensile Strength		TD	30 MPa	ISO 527-3
Tensile Modulus		MD	800 MPa	ISO 527-3
Tensile Modulus		TD	750 MPa	ISO 527-3
Coefficient of friction (Film/Film)			> 0,7	ISO 8295

Storage
RB709CF 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.

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

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Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

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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