



Polypropylene

RD461CF

Description

RD461CF is a random copolymer

This grade is suitable for the manufacturing of unoriented films on chill roll processes.

Applications

RD461CF is recommended for

Food packaging
High quality stationery

Lamination films
Textile packakging film

Additives

RD461CF contains antistatic additives contains antiblock and slip agents

Additives	Content	
Antiblock (SiO ₂)	1800 ppm	Borealis Method
Antistatic agent	< 2000 ppm	Borealis Method
Slip (EAA)	1800 ppm	Borealis Method

Special features

RD461CF is optimised to deliver:

High gloss
Low haze
Good heat seal properties
Easy processability

High output
Heat sterilisable
High impact strength

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	900 - 910 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	8 g/10min	ISO 1133
Flexural Modulus ¹	1.000 MPa	ISO 178
Melting temperature (DSC)	148 - 154 °C	ISO 3146
Vicat softening temperature A50, (10 N) ¹	139 °C	ISO 306

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



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Film Properties

Property		Typical Value	Test Method
		Data should not be used for specification work	
Instrumented puncture test	Total Penetration Energy	17 J	ISO 7765-2
	Force	1100 N	
Haze		< 2 %	ASTM D 1003
Gloss at 20 degree (of arc) ¹		> 120 %	ASTM D 2457
Tensile Strain at Break	MD	550 - 750 %	ISO 527-3
	/TD		
Tensile Strength	MD	30 - 50 MPa	ISO 527-3
Tensile Strength	TD	25 - 45 MPa	ISO 527-3
Tensile Modulus	MD	500 - 600 MPa	ISO 527-3
	/TD		
Coefficient of friction (Film/Film)		0,1 - 0,2	ISO 8295

¹ 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.

Storage

RD461CF 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.

Safety

The product is not classified as a dangerous preparation.

Please see our Safety Data 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.

Please see our Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borealis representative.

Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

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Safety Data Sheet
Statement on chemicals, regulations and standards
General statement on compliance to food contact regulations

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 Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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