



Polypropylene RD461CF

Description

RD461CF is a random copolymer

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

CAS-No. 9010-79-1

Applications

RD461CF is recommended for:

Food packaging
High quality stationery film
Lamination films

Textile packaging film
Flower packaging

Additives

RD461CF is a slip, antiblock and antistatic formulated resin.

Additives	Content	
Antiblock (SiO ₂)	1800 ppm	Borealis Method
Slip	1800 ppm	Borealis Method
Calcium stearate	Yes	
Antistatic agent	Yes	Borealis Method

Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
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
Vicat softening temperature	138 °C	ISO 306
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	Test Method
<small>Data should not be used for specification work</small>			
Instrumented puncture test	Total Penetration Energy	17 J/mm	ISO 7765-2
Haze		< 2 %	ASTM D 1003
Gloss at 20 degree (of arc)		> 120	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)		0,15	ISO 8295

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" / "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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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
General statement on compliance to food contact regulations
Statement on polymer additives and BSE

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.