



# 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 <sub>2</sub> )	1800 ppm	Borealis Method
Slip	1800 ppm	Borealis Method
Calcium stearate	Yes	
Antistatic agent	Yes	Borealis Method

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Melt Flow Rate (230 °C/2,16 kg)	8 g/10min	ISO 1133
Flexural Modulus <sup>1</sup>	1.000 MPa	ISO 178
Melting temperature (DSC)	150 °C	ISO 11357-3
Vicat softening temperature	138 °C	ISO 306
Molecular weight distribution	Narrow	

<sup>1</sup> 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
		Data should not be used for specification work	
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.