



# Polypropylene RE239CF

## Description

RE239CF is a random copolymer

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

**CAS-No.** 9010-79-1

## Applications

RE239CF is recommended for:

Food packaging  
Lamination films  
Textile packaging film

Stationary films  
Flower packaging

## Additives

RE239CF contains antiblock and slip agents

Additives	Content	
Antiblock (SiO <sub>2</sub> )	1800 ppm	Borealis Method
Slip (EAA)	2000 ppm	Borealis Method
Calcium stearate	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)	11 g/10min	ISO 1133
Flexural Modulus <sup>1</sup>	700 MPa	ISO 178
Melting temperature (DSC)	140 °C	ISO 11357-3
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	25 J/mm	ISO 7765-2
Haze		< 1,8 %	ASTM D 1003
Gloss at 20 degree (of arc)		> 130	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	25 MPa	ISO 527-3
Tensile Modulus	MD	400 MPa	ISO 527-3
Tensile Modulus	TD	400 MPa	ISO 527-3
Coefficient of friction (Film/Film)		0,15	ISO 8295

## Storage

**RE239CF** 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

Statement on polymer additives and BSE

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