



# Polypropylene HD234CF

## Description

**HD234CF** is a homopolymer film resin, suitable for the manufacturing of unoriented film on chill roll process.

## Applications

**HD234CF** is recommended for

Food packaging  
Lamination films  
Stationery folders

Flower packaging  
Textile packaging film

## Additives

**HD234CF** contains antiblock and slip agents

Additives	Content	
Antiblock (SiO <sub>2</sub> )	1800 ppm	Borealis Method
Slip (EAA)	2000 ppm	Borealis Method

## Special features

**HD234CF** is optimised to deliver:

Easy processability  
Good mechanical properties  
High stiffness

Heat sterilisable  
Good optical properties

## 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>	1.300 MPa	ISO 178
Melting temperature (DSC)	162 °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	10 J/mm	ISO 7765-2
Haze		< 2,5 %	ASTM D 1003
Gloss at 20 degree (of arc)		> 110	ASTM D 2457
Tensile Strain at Break	MD	600 %	ISO 527-3
Tensile Strain at Break	TD	700 %	ISO 527-3
Tensile Strength	MD	45 MPa	ISO 527-3
Tensile Strength	TD	35 MPa	ISO 527-3
Tensile Modulus	MD	700 MPa	ISO 527-3
Tensile Modulus	TD	700 MPa	ISO 527-3
Coefficient of friction (Film/Film)		0,25	ISO 8295

## Storage

**HD234CF** 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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**Polypropylene**  
**HD234CF**

**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.

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**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.**

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