

# Polypropylene Borsoft™ SA233CF

## Description

**Borsoft SA233CF** is a very soft random heterophasic copolymer.

This grade is suitable for use on conventional blown film lines with air cooling.

## Applications

**Borsoft SA233CF** is designed for:

Hygienic film  
Lamination films  
Multi layer co-extrusion films

Frozen food packaging  
Heavy-duty bags  
Soft packaging films

## Special features

**Borsoft SA233CF** is optimised to deliver:

Superior softness  
Outstanding mechanical properties  
Excellent heat seal properties

Easy processing on standard blown film lines with air-cooling  
Good radiation resistance (for sterilisation)  
Good soft to the surface touch

## Physical Properties

Property	Typical Value	Test Method
Melt Flow Rate (230 °C/2,16 kg)	1 g/10min	ISO 1133
Flexural Modulus <sup>1</sup>	500 MPa	ISO 178
Melting temperature (DSC)	140 °C	ISO 11357-3
Molecular weight distribution	Medium	

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

Borsoft is a trademark of Borealis A/S, Denmark.

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## Film Properties

Specific film values evaluated on blown films, produced with Borealis internal standard conditions with a thickness of 50 µm.

Property		Typical Value	Test Method
Data should not be used for specification work			
Dart Drop		400 g	ISO 7765-1
Instrumented puncture test	Total Penetration Energy	15 J/mm	ISO 7765-2
Haze		< 20 %	ASTM D 1003
Gloss at 20 degree (of arc)		> 8	ASTM D 2457
Tensile Strain at Break	MD	700 %	ISO 527-3
Tensile Strain at Break	TD	800 %	ISO 527-3
Tensile Strength	MD	60 MPa	ISO 527-3
Tensile Strength	TD	50 MPa	ISO 527-3
Tensile Modulus	MD	500 MPa	ISO 527-3
Tensile Modulus	TD	500 MPa	ISO 527-3
Coefficient of friction		> 0,7	ISO 8295

## Storage

**Borsoft SA233CF** 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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## 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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