



Polypropylene BD212CF

Description

BD212CF is a heterophasic copolymer.

This grade is suitable for the manufacturing of unoriented films on cast and tubular quench film lines.

Applications

BD212CF is designed for:

Food packaging
Lamination films

Stationary films
Label film

Additives

BD212CF Slip and antiblock free additives

Special features

BD212CF is optimised to deliver:

Easy processability
High welding seam strength
Very good mechanical properties
High toughness

Excellent low temperature impact
Good heat seal properties
Very low gel level

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (Base Resin)	900 - 910 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	5 g/10min	ISO 1133
Flexural Modulus ¹	1.000 MPa	ISO 178
Melting temperature (DSC)	158 - 162 °C	ISO 3146
Vicat softening temperature A50, (10 N) ¹	145 °C	ISO 306

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

Film Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Instrumented puncture test	Total Penetration Energy Force	28 J 1150 N
Haze ¹	< 25 %	ASTM D 1003
Gloss at 60 degree (of arc) ²	> 7 %	ASTM D 2457
Tensile Strain at Break	MD 600 - 800 %	ISO 527-3

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Tensile Strength	/TD		
Tensile Strength	MD	35 - 55 MPa	ISO 527-3
Tensile Strength	TD	30 - 50 MPa	ISO 527-3
Tensile Modulus	MD	450 - 550 MPa	ISO 527-3
	/TD		

¹ Measured on 50 µm thick chill roll films acc. to Borealis internal standard conditions. Film properties are strongly dependent on the processing conditions.

² 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.

Storage

BD212CF 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.

Safety

The product is not classified as a dangerous preparation. Please see our Safety Data 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.

Please see our Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borealis representative.

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
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations



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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.

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 Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.