

PRODUCT DATA SHEET

POLYPROPYLENE RD211CF

POLYPROPYLENE RANDOM COPOLYMER FOR FILM APPLICATIONS

DESCRIPTION

RD211CF is a Random Copolymer Polypropylene product produced by the proprietary **Borstar®** process. This product is suitable for sealing layer for Cast Polypropylene Film, BOPP film and POF film applications.

RD211CF does not contain Slip and Calcium Stearate. It contains anti-block.

APPLICATIONS

Sealing layer in co-extrusion film Surface protection/ Masking film Textile packaging film Twist Wrap film POF Lamination film Food packaging film Multilayer CPP film BOPP film

SPECIAL FEATURES

Good Heat Seal properties Good optics (Haze & Gloss) Excellent Hot Tack Good processability

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	900-910kg/m ³	ASTM D792
Melt Flow Rate (230°C/2.16kg)	6.0g/10min	ASTM D1238
Flexural Modulus	700Mpa	ISO 178
Melting Temperature(DSC)	136°C	ISO 3146
Vicat Softening Temperature(Method A)**	118°C	ISO 306

*Data should not be used for specification work

FILM PROPERTIES

Cast film Property	Typical Value	Test Method
Haze	<1%	ASTM D1003
Gloss @ 20 degree(of arc)	>120	ASTM D2457
Tensile Strain at break(MD/TD)	450-600%	ISO 527-3
Tensile Strength(MD/TD)	40Mpa/ 30MPa	ISO 527-3
Tensile Modulus(MD/TD)	600MPa	ISO 527-3
Heat Seal Temperature	115°C	Borouge method

Specific film values evaluated on Cast films produced with Borouge internal standard conditions with a thickness of 50µm. 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. Film made as monolayer film on lab scale line with melt temperature 220-240°C

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^{**} Measured on injection moulded specimens, conditioned at 23°C and 50% Rel. Hum.



PROCESSING GUIDELINES

The actual conditions will depend on the type of equipment used.

Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borouge representative for such particulars.

FOOD CONTACT REGULATIONS

RD211CF fulfils the food contact regulations in most countries. For specific information and compliance statement please contact your Borouge representative.

STORAGE

RD211CF 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 can be found in Safety Information Sheet (SIS) for this product

SAFETY

The product is not classified as a hazardous preparation.

Please see our Safety Information Sheet (SIS) for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borouge 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 Information Sheet

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

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.

Borouge 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 Borouge 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.

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