

Technical Data Sheet

Polypropylene Borclear™ RB707CF

DESCRIPTION

Borclear™ RB707CF is a random copolymer Polypropylene grade produced by the proprietary **Borstar®** process.

This product is suitable for the manufacturing of films on blown film lines.

APPLICATIONS

Transparent packaging film
Sealing layer in monolayer or co extrusion
Textile packaging film
Form-fill-seal films
Core layer for increased stiffness
Films requiring broader sealing window
Food packaging
Display packaging

Lamination films
Label film
Protection film
Shrink Films
Overwrap film
Heat resistant film
Blending
Semi-retort film

SPECIAL FEATURES

High Gloss
Low Haze
Low sealing initiation temperature
Broad sealing window
High & low temperature resistance

Good mechanical properties
Heat Sterilisable
Excellent film appearance
Good Stiffness
Good bubble stability

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	900-910 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2.16 kg)	1.5 g/10min	ISO 1133
Flexural Modulus ¹	800 MPa	ISO 178
Melting Temperature (DSC)	143 - 147°C	ISO 3146
Vicat softening temperature A50, (10 N) ¹	125 °C	ISO 306

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

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

Recommended melt temperature range 190 – 225°C

FILM PROPERTIES

Property		Typical Value	Test Method

Instrumented Puncture test			
Total penetration energy		5 J	ISO 7765-2
Force		850 N	ISO 7765-2
Haze		<8 %	ASTM D 1003
Gloss (20 °C) at 20 degree (of arc)		>70%	ASTM D 2457
Tensile Strain at Break	MD/TD	700 – 800%	ISO 527-3
Tensile Strength	MD	30-50 MPa	ISO 527-3
Tensile Strength	TD	35-55 MPa	ISO 527-3
Tensile Modulus	MD/TD	750 – 850 MPa	ISO 527-3
COF		> 0.7	ISO 8295

Data should not be used for specification work

Specific film values evaluated on blown films produced with Borouge 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

Borclear™ RB707CF 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 Data Sheet for this product.

SAFETY

The product is not classified as a dangerous preparation.

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 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 Data 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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