Borclear™ RB707CF

Polypropylene Random Copolymer

Borealis AG

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Technical Data

Product Description

Borclear RB707CF is a random copolymer.

This grade is suitable for the manufacturing of unoriented film on blown film lines.

General

Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet (English)		
Search for UL Yellow Card	• Borealis AG		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Additive Free • Heat Sterilizable • High Clarity	• High Gloss • Low Temperature Heat Sealability • Pleasing Surface Appearance	• Random Copolymer
Uses	• Film • Food Packaging • Labels	• Laminates • Non-oriented Film • Packaging	• Sealants
Processing Method	• Blown Film	• Coextruded Film	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 to 0.910 g/cm³	0.900 to 0.910 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5 g/10 min	1.5 g/10 min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flexural Modulus			ISO 178
73°F (23°C), Injection Molded	116000 psi	800 MPa	
Coefficient of Friction			ISO 8295
vs. Itself - Dynamic	> 0.70	> 0.70	
Films	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Film Thickness - Tested	2.0 mil	50 µm	
Film Puncture Force (2.0 mil (50 µm))	191 lbf	850 N	ISO 7765-2
Tensile Modulus			ISO 527-3
MD : 2.0 mil (50 µm)	109000 to 123000 psi	750 to 850 MPa	
TD : 2.0 mil (50 µm)	109000 to 123000 psi	750 to 850 MPa	
Tensile Strength			ISO 527-3
MD : 2.0 mil (50 µm)	4350 to 7250 psi	30.0 to 50.0 MPa	
TD : 2.0 mil (50 µm)	5080 to 7980 psi	35.0 to 55.0 MPa	
Tensile Elongation			ISO 527-3
MD : Break, 2.0 mil (50 µm)	700 to 800 %	700 to 800 %	
TD : Break, 2.0 mil (50 µm)	700 to 800 %	700 to 800 %	
Instrumented Dart Impact			ISO 7765-2
2.0 mil (50 µm), Total Energy	3.69 ft·lb	5.00 J	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Vicat Softening Temperature [3]	257 °F	125 °C	ISO 306/A50
Melting Temperature (DSC)	289 to 297 °F	143 to 147 °C	ISO 3146
Optical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Gloss (20°, 1.97 mil (50.0 µm))	> 70	> 70	ASTM D2457
Haze (1.97 mil (50.0 µm))	< 8.0 %	< 8.0 %	ASTM D1003

Form No. TDS-74703-en

Document Created: Tuesday, November 8, 2016
Added to Prospector: March 2004
Last Updated: 4/15/2015

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

[3] Injection molded specimen, 23°C

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Where to Buy

Supplier

Borealis AG
Vienna, Austria
Telephone: +43-122-400-302
Web: http://www.borealisgroup.com/

Distributor

Nexeo Solutions - Europe
Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.
Telephone: +34-93-480-9125
Web: http://www.nexeosolutions.com/
Availability: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Russian Federation, Spain, Sweden, Switzerland, United Kingdom

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