

PRODUCT NAME: PET BC211

Supplier: SABIC®

Product Identification & Description

BC211 is a crystalline, high molecular weight thermoplastic polymer made by continuous melt-phase polymerization process followed by solid-state polymerization. BC211 is especially formulated bottle grade PET characterized by low I.V., and low acetaldehyde generation during melting.

Typical Applications

BC211 is especially suitable for the production of bottles for water and can be used for non-carbonated and other packaging applications.

Physical Properties

Property	Typical Values	Units	Test Methods
Intrinsic Viscosity	0.76 ± 0.02	dL/g	SABIC Method
DEG Content	< 1.5	wt. %	SABIC Method
Crystalline Density	< 1390	kg/m ³	SABIC Method
Moisture Content	< 0.35	wt. %	SABIC Method

POLYMER PROPERTIES

Property	Typical Values	Units	Test Methods
Acetaldehyde	< 1	ppm	SABIC Method
Color (L)	89 ± 4.0	L-value	IRC 0051
Color (b)	-1.5 ± 2.0	b-value	IRC 0051
Dust Content	< 0.01	wt. %	SABIC Method
Bulk Density	850 ± 10	kg/m ³	ASTM D1895

Processing Conditions

- The PET (BC211) has to be dried to moisture content below about 30-40 ppm. The drying conditions typically used are 180 °C for 5 hours; the dew point of the drying air should be at least -40 °C. Typically, injection temperatures of 275 °C maybe used to get clear preforms with low acetaldehyde level. Even lower injection temperature can be tried, but if the preforms become hazy, the temperature should be raised. Low screw backpressures should be used.

Storage and Handling

BC211 is suitable for food contact application. Detail information provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes.

The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us. Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

Revision: This datasheet replaces all previous versions. **Revision Date:** Mar 2026

