PRODUCT NAME: PET BC212

Supplier: SABIC®

Product Identification & Description

BC212 is a crystalline, high molecular weight thermoplastic polymer made by continues melt-phase polymerization process followed by solid-state polymerization. BC212 is specially formulated bottle grade PET, characterized by high I.V and low acetaldehyde. The high I.V. confers good mechanical properties; high burst strengths and reduced bottle distension after filling.

Typical Applications

BC212 is especially suitable for the production of bottles for carbonated drinks. The high I.V. gives the bottle the extra mechanical strength required in hot countries due to the high pressure from carbonation. It can also be used for bottles for non-carbonated and other packaging applications, e.g. edible oil & thermoformed packaging.

Physical Properties

Property	Typical Values	Units	Test Methods
Intrinsic Viscosity	0.84 ± 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 (BC212) has to be dried to moisture content below about 30-40 ppm. The drying conditions typically used are 180 ºC for 5 hours; the dew point of the drying air should be at least -40 ºC. Typically, injection temperatures of 285 ºC maybe used to get clear preforms with acceptable acetaldehyde level for Colas and flavored drinks.

Storage and Handling

PET resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry with relative humidity below 50% and temperatures preferably do not exceed 50 ºC. SABIC would not give warranty to bad storage conditions, which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PET within 6 months after delivery.

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