

## POLYMERS

# SABIC<sup>®</sup> PET BC110

Crystalline Polyethylene Terephthalate (PET)

### PRODUCT DESCRIPTION:

BC110 is a crystalline, high molecular weight thermoplastic polymer made by continuous melt-phase polymerization process followed by solid-state polymerization

### CHARACTERISTICS

BC110 is specially formulated bottle grade PET that is characterized by medium I.V.

### TYPICAL APPLICATIONS:

BC110 is especially suitable for the production of bottles for carbonated drinks in temperate climates. It can also be used for bottles for general packaging applications, e.g. edible oil & thermoformed packaging.

### TYPICAL DATA:

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Intrinsic Viscosity	DL/g	0.80 ± 0.02	SABIC (IRC0041)
Acetaldehyde	PPM	<1	SABIC (IRC00057)
Color (L)	-	89 ± 4.0	SABIC (IRC0051)
Color (b)	-	-1.5 ± 2.0	SABIC (IRC0051)
Melting Range	°C	246 - 256	SABIC (IRC0053)
DEG Content	% w/w	< 1.5	SABIC (IRC0055)
Crystalline Density	Kg/m <sup>3</sup>	< 1390	SABIC (IRC0032)
Dust Content	% w/w	< 0.01	SABIC (IRC0060)
Bulk Density	Kg/m <sup>3</sup>	838 ± 10	ASTM D 1895
Moisture Content <sup>(2)</sup>	% w/w	< 0.35	SABIC (IRC0050)

(1) Typical values; not to be construed as specification limits.

(2) At Equilibrium

### PROCESSING CONDITIONS:

The PET (BC110) 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 285 °C may be used to get clear preforms with acceptable acetaldehyde level for Colas and flavored drinks.

## **FOOD REGULATION:**

BC110 is suitable for food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

## **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 don't exceed 50 °C. 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.

## **CONTACT US:**

Technical Marketing Team:

Tel: +966 1 2659166

Fax: +966 1 2653544

SABIC, P.O. Box 5101, Riyadh 11422, Kingdom of Saudi Arabia

Tel: +966 1 2258000

Fax: +966 1 2259000

Website: [www.sabic.com](http://www.sabic.com)

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