

SABIC® PET BC212

CRYSTALLINE POLYETHYLENE TEREPHTHALATE (PET)

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.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES			
Intrinsic Viscosity ⁽¹⁾	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 ⁽²⁾	<0.35	Wt. %	SABIC method
POLYMER PROPERTIES			
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

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

(2) At Equilibrium. Typical values; not to be construed as specification limits.