

TECHNICAL DATASHEET

PET TLE - 101



PET RESIN CHIPS SPECIFICATION

CODE NO. TLE-101

WATER BOTTLE GRADE

ITEM	UNIT	INDEX	TEST METHOD	
IV	dL/g	0.80±0.02	ASTM D4603-03	
AA	ppm	≤1.0	GC	
DEG	%	1.25±0.2	GC	
MELTING POINT	°C	249±2	DSC	
COOH	mmol/kg	≤35	Titration	
COLOR	L VALUE	-	≥80	GB17931-2003
	B VALUE	-	≤0	GB17931-2003
CRYSTALLI-ZATION	%	≥45	DSC	
HUMIDITY	%	≤0.4	IR	
IMPURITIES	granula/500g	NULL	GB17931-2003	
ASH	%	≤0.08	GB17931-2003	
DUST	mg/kg	≤100	GB17931-2003	

TECHNICAL DATASHEET

PET BC112

PRODUCT DESCRIPTION

BC112 is a crystalline, high molecular weight thermoplastic polymer made by continuous melt-phase polymerization process followed by solid-state polymerization

APPLICATION

BC112 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 pressures from carbonation. It can also be used for bottles for noncarbonated (except water) and other packaging applications, e.g. edible oil & thermoformed packaging.

TECHNICAL DATA

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Intrinsic Viscosity	Dl/g	0.84 ± 0.02	(IRC0041)
Acetaldehyde	PPM	<1	(IRC00057)
Color (L)	-	89 ± 4.0	(IRC0051)
Color (b)	-	-1.5 ± 2.0	(IRC0051)
Melting Range	°C	246 - 256	(IRC0053)
DEG Content	% w/w	< 1.5	(IRC0055)
Crystalline Density	Kg/m ³	< 1390	(IRC0032)
Dust Content	% w/w	< 0.01	(IRC0060)
Bulk Density	Kg/m ³	838 ± 10	ASTM D 1895
Moisture Content ⁽²⁾	% w/w	< 0.35	(IRC0050)

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BC212

PRODUCT DESCRIPTION

BC212 is a crystalline, high molecular weight thermoplastic polymer made by continuous 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.

APPLICATION

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.

TECHNICAL DATA

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES			
Intrinsic Viscosity ⁽¹⁾	0.84 ± 0.02	dl/g	
DEG Content	< 1.5	% w/w	
Crystalline Density	< 1390	kg/m ³	
Moisture Content ⁽²⁾	< 0.35	% w/w	
POLYMER PROPERTIES			
Acetaldehyde	< 1	ppm	
Color (L)	89 ± 4.0	L-value	IRC 0051
Color (b)	-1.5 ± 2.0	b-value	IRC 0051
Dust Content	< 0.01	% w/w	
Bulk Density	850 ± 10	kg/m ³	ASTM D1895