

SABIC BC 112 Crystalline Polyethylene Terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

Product Description: BC 112 is a crystalline, high molecular weight thermoplastic polymer made by a continuous melt-phase polymerization process followed by solid-state polymerization. **Characteristics:** BC 112 is a specially formulated bottle grade PET that is characterized by High I.V. and low acetaldehyde. The High I.V. confers good mechanical properties; high burst strength s and reduced bottle distension after filling. **Typical Applications:** BC 112 is especially suitable for the production of bottles for carbonated drinks. The high I.V. gives the bottle extra mechanical strength required in hot climates 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. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-BC-112-Crystalline-Polyethylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Bulk Density	0.828 - 0.848 g/cc	0.0299 - 0.0306 lb/in ³	ASTM D1895
Density	<= 1.39 g/cc	<= 0.0502 lb/in ³	crystalline density; SABIC (IRC0032)
Viscosity Test	82 - 86 cm ³ /g	82 - 86 cm ³ /g	Intrinsic; SABIC (IRC0041)
Maximum Moisture Content	<= 0.35	<= 0.35	% w/w; SABIC (IRC0050)

Thermal Properties	Metric	English	Comments
Melting Point	246 - 256 °C	475 - 493 °F	SABIC (IRC0053)

Chemical Properties	Metric	English	Comments
Acetaldehyde	<= 1.00 ppm	<= 1.00 ppm	SABIC (IRC0057)

Descriptive Properties	Value	Comments
Color (b)	-1.5 ± 2.0	
Color (L)	89 ± 4.0	
DEG Content	< 1.5 % w/w	SABIC (IRC0055)
Dust Content	< 0.01 % w/w	SABIC (IRC0060)

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