

PARS PET BG 780 N/S

Crystalline Polyethylene Terephthalate (PET)

Product Description

BG 780 is a crystalline, high molecular weight thermoplastic polymer made by continuous melt-phase polymerization process followed by solid-state polymerization.

Characteristics

BG 780 is specially formulated bottle grade PET that is characterized by low I.V., and low acetaldehyde generation on melting.

Typical Applications

BG 780 is especially suitable for the production of bottles for water (suitable for hot countries). It can also be used for noncarbonated and other packaging applications.

Specifications:

PROPERTIES	Unit	BG 780 N	BG 780 S	Test Method
Intrinsic Viscosity	DL/g	0.78 ± 0.02	0.78 ± 0.02	ISO 1628-5
DEG Content	Wt%	≤ 1.8	≤ 1.5	ASTM E2409-4
Color (CIE Lab)	(L*)	≥ 90	≥ 95	ASTM D6290-5
Color (CIE Lab)	(b*)	≤ 2	≤ 1	ASTM D6290-5
Carboxyl End Group	Meq/Kg	≤ 32	≤ 32	ASTM D7409-7
Melting Point	°C	249 ± 3	249 ± 3	ASTM D3418-3
Acetaldehyde	PPM	≤ 1	≤ 1	ASTM F2013-5
Water Content	Wt%	≤ 0.3	≤ 0.3	ASTM D6869-3

Note: 1) 'Water Content' determined before packing.

2) 'Color' determined after crystallization.

3) All presented parameters would be the average of lab result.

Processing Conditions

The PET (BG 780) 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. The injection temperature should be as low as possible in order to minimize acetaldehyde in the preforms. Due to the low melt viscosity of this grade, typically injection temperatures of 275 °C may be used to get clear preforms with low acetaldehyde. Even lower injection temperatures can be tried, but if the preforms become haze, the temperature should be raised. Low screw back pressures should be used.

Food Regulation

BG 780 is suitable for food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact STPC 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. STPC 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.

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