SABIC® PET PCG60

CRYSTALLINE POLYETHYLENE TEREPHTHALATE (PET)

DESCRIPTION

SABIC® PET PCG60 for healthcare applications is produced under controlled conditions resulting in high product quality, consistency and a high level of purity. It is a crystalline, low molecular weight thermoplastic polymer made by continues melt-phase polymerization process followed by solid-state polymerization.
SABIC® PET PCG60 is a specially formulated medical grade complying European and US pharmacopeia requirements. This grade exhibits easy flow ability which benefits thin walled injection molding process.

TYPICAL APPLICATIONS

PET PCG60 is especially suitable for the production of medical blood tubes.

TYPICAL PROPERTY VALUES

Revision 20250505

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES			
Intrinsic Viscosity (1)	0.6 ± 0.02	dl/g	SABIC method
Crystalline Density	<1390	kg/m³	SABIC method
Moisture Content (2)	<0.35	Wt. %	SABIC method
POLYMER PROPERTIES			
Color (b)	-1.5 ± 2.0	b-value	IRC 0051
Dust Content	<0.01	Wt. %	SABIC method
Bulk Density	838 ± 10	kg/m³	ASTM D1895
OPTICAL PROPERTIES			
Color (L)	>80	-	SABIC method

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

PROCESSING CONDITIONS

The PET PCG60 has to be dried to moisture content below about 30-40 ppm. The drying conditions typically used are 170 ºC for 5 hours; the dew point of the drying air should be at least -40 ºC. Typically, injection temperatures of 285 ºC may be used to get clear blood tubes.

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 ºC. 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.

DISCLAIMER