

SABIC[®] PET PCG 60

CRYSTALLINE POLYETHYLENE TEREPHTHALATE (PET)

DESCRIPTION

SABIC[®] PCG PET60 for healthcare applications is produced under controlled conditions resulting in high product quality, consistency and a high level of purity. PCG PET60 is a crystalline, low molecular weight thermoplastic polymer made by continuous melt-phase polymerization process followed by solid-state polymerization. PCG PET60 is a specially formulated medical grade complying European pharma requirements. This grade exhibits easy flow ability which benefits thin walled injection molding process.

TYPICAL APPLICATIONS

PCG PET60 is especially suitable for the production of medical blood tubes.

TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES			
Intrinsic Viscosity ⁽¹⁾	0.6 ± 0.02	dl/g	SABIC method
Crystalline Density	<1390	kg/m ³	SABIC method
Moisture Content ⁽²⁾	<0.35	% w/w	SABIC method
POLYMER PROPERTIES			
Color (b)	-1.5 ± 1.0	b-value	IRC 0051
Dust Content	<0.01	% w/w	SABIC method
Bulk Density	838 ± 10	kg/m ³	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 PCG PET60 has to be dried to moisture content below about 30-40 ppm. The drying conditions typically used are 170 °C for 5 hours; the dew point of the drying air should be at least -40 °C. Typically, injection temperatures of 285 °C may be used to get clear blood tubes.

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

The PCG PET 60 complies with the requirements laid down in the European Pharmacopoeia § 3.1.15, eight editions, 2015.

Do not use this SABIC product in all medical applications involving any of the following medical devices in accordance with the classification criteria and definitions as outlined in annex IX of the EU council directive on medical devices (93/42/EEC of 14 June 1993 including amendments):

1. Class IIB implantable medical devices and both short-term (not including transient use) and long term surgically invasive devices;
2. All medical devices in class III.

PCG PET60 is suitable for food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC 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. 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

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