

Technical data sheet

TG

PETg

Characteristics

High clarity amorphous Poly (Ethylene Terephthalate) Glycol Polyester with excellent thermo forming properties. PETg has high chemical resistance and can sterilize with ETO as well as with Gamma radiation. Having a good stiffness and resilience. The best part of this material is recycle; hence it is eco friendly material

Parameter	Description	Unit
Surface	Glossy/glossy	NA
Colours	Transparent clear, opaque white, customized	NA
Thickness	250 – 350 µm	µm
Grammage (Transparent)	g/m ² (PETg Thickness *1.33)	g/m ²
Yield (Transparent)	m ² /kg (1000 / Thickness * 1.33)	m ² / kg

Properties

Sr. No.	Particulars	Test method reference	Specifications
1	Thickness	DIN 53370	250 μm $\pm 10\%$ 350 μm $\pm 10\%$
2	GSM	DIN 53352	= (PETg thickness X 1.33*) g/m ² * Density of PETg in g/cc
3	Dimensional Stability	DIN 53377	LD – TBT TD + TBT
4	Tensile strength	ASTM – D 882	LD & TD > 450 kg/ m ² min
5	Elongation	ASTM – D 882	LD & TD 5 %
6	Toxicity	USP – 31	Non toxic
7	Softening point	Din 53765	76 to 77 Deg. C.
8	WVTR at 38 Deg.C. & 90 % RH (Guide value)	DIN 53122	~ 14.0 gm/ m ² /day Depending on thickness
9	OTR at 23 Deg.C. & 85 % RH (Guide value)	Oxtran carrier gas method	TBT Depending on thickness
10	Impact Strength	DIN 53448	TBT

Regulatory	Complies with the requirements of the European Pharmacopoeia and with Directive 2002/72/EC and amendments in their current version
	Complies with the relevant US Code of Federal Regulations CFR 21 and with the US Pharmacopoeia where applicable.
	Complies with Directive 94/62/EC and with US CONEG regulations.
	Formulation filed with FDA, DMF 15884 Type III.
	Production and quality controls according to cGMP rules

