

3DO PETG Filament – Technical Datasheet



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3DO PETG is designed for a wide variety of applications where a good mix of mechanical and optical material properties is required. The raw material has been authorized in accordance with FDA, REACH, and RoHS regulations. At a wall thickness of 3.2 mm, PETG is flame retardant according to UL 94.



PRINT SETTINGS

Nozzle: 225-245°C

Heatbed: 60-70°C

Speed: 40-60mm/s

Cooling: medium

KEY FEATURES

- Good mechanical properties
- High chemical resistance
- Low warping & shrinking
- Flame retardant (UL94 V-2)
- Recycleable
- Free of silicone
- RoHS, Reach, FDA compliant

STORAGE AND SHELF LIFE

Store at room temperature in a dry place (18-27 °C).

Keep out of direct sunlight and heat. This material has a two-year shelf life if stored properly.

Properties

Test	Method	Unit	Value
Tensile modulus (E-Modulus)	ASTM D882	MPa	3100
Yield stress	ASTM D882	MPa	51
Flexural strength	ASTM D882	MPa	68
Nominal elongation at break	ASTM D882	%	28
Notched impact strength	ASTM D256	kJ/m ²	4,7
VICAT A (VST)	ASTM E2092	°C	78*
Melting temperature	ISO 3146-C	°C	180-200
MFR	ASTM D1238	g/10min	6
Shrinking	ASTM D955	%	0,5
Density	ASTM D792	g/cm ³	1,29

*A minimum wall thickness of 4 mm was used to evaluate temperature resistance.