

3DO PLA Filament – Technical Datasheet



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3DO PLA is manufactured from a biopolymer that is biodegradable and has high mechanical properties. The material is appropriate for industrial uses, fast prototyping, architecture, and food applications, among others. The raw material has been authorized in accordance with REACH, RoHS, and FDA regulations.



PRINT SETTINGS

Nozzle: 200-230°C
Heatbed: 20-60°C
Speed: 40-60mm/s
Cooling: Medium / High

KEY FEATURES

- Good strength
- Low warping
- Biodegradable (EN 13432)
- RoHS, Reach, FDA compliant
- Free of silicone

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	500 (3.5)
Tensile strength	ASTM D882	MPa	53
Stress at break	ASTM D882	MPa	60
Nominal elongation at break	ASTM D882	%	6
Notched impact strength	ASTM D256	kJ/m ²	0,3
VICAT A (VST)	ASTM E2092	°C	55*
Melting temperature	ISO 3146-C	°C	180-200
MFR	ASTM D1238	g/10min	6
Shrinking	ASTM D955	%	0,4
Density	ASTM D792	g/cm ³	1,24

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