

3DO ASA Filament – Technical Datasheet



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3DO ASA is a UV-resistant and weatherproof copolymer designed for industrial uses. It has a high level of process dependability and is well suited for mechanically stressed components. It's an electrically insulating substance. The layer adhesion, thermal stability, flow characteristics, and warping tendencies of 3DO ASA have all been optimized. The raw material has been authorized in accordance with REACH, RoHS, and FDA regulations.



PRINT SETTINGS

- Nozzle: 230-250°C
- Heatbed: 100-110°C
- Speed: 40-60mm/s
- Cooling: low

KEY FEATURES

- Good strength
- Good mechanical properties
- Good chemical resistance
- Flame retardant (UL94 HB)
- 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	2200
Tensile strength	ASTM D882	MPa	49
Flexural strength	ASTM D882	MPa	78
Nominal elongation at break	ASTM D882	%	20
Notched impact strength	ASTM D256	kJ/m ²	140 @ 23°C 29 @ -30°C
VICAT A (VST)	ASTM E2092	°C	96*
Melting temperature	ISO 3146-C	°C	180-200
MFR	ASTM D1238	g/10min	20
Shrinking	ASTM D955	%	0,4
Density	ASTM D792	g/cm ³	1,05

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