TECHNICAL DATA SHEET
PLA NX2

DESCRIPTION

PLA NX2 is made form a renewable biopolymer. It combines good mechanical properties with high flexibility. It is suitable for industrial use, rapid prototyping, architecture, food-applications, etc. The raw material is approved according to the REACH-, RoHS- and FDA- Standards.

FEATURES

- Smooth matte finish
- „Safety-of-Toys" Compliant
- Optimized impact strength
- Low warping tendency
- Biodegradable (EN 13432)

PROPERTIES [1]

TEST	METHOD	UNIT	VALUE
Flexural modulus (E-Modulus)	ISO 178	MPa	2650
Tensile modulus (E-Modulus)	ISO 527	MPa	2600
Tensile strength	ISO 527	MPa	47
Elongation at strength	ISO 527	%	4
Stress at break	ISO 527	MPa	23
Nominal elongation at break	ISO 527-2	%	19
Notched impact strength	ISO 179/1eA	kj/m²	7
Unnotched impact strength	ISO 179/1eU	kj/m²	no break
VICAT A (VST)	ISO 306	ºC	60*
Melting temperature	ISO 3146-C	ºC	180-200
MFR	ISO 1133	g/10min	5
Shrinking	ISO 294-4	%	0.3
Density	ISO 1183	g/cm³	1.3

*Temperature resistance tested at a minimum wall thickness of 4 mm.

CERTIFICATIONS & ADDITIONAL INFORMATION [2]

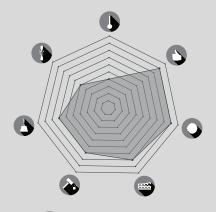RoHS COMPLIANT

REACH COMPLIANT

FDA

FREE OF SILICONE

DEGRADABLE ISO 13432

TOY-SAFE COMPLIANT

STORAGE AND SHELF LIFE

Store in a dry room at room temperature (18-27°C / 65-80°F). Keep out of direct heat and sunlight. When stored correctly, this material has a shelf life of 2 years.

1. Additional info in our **regulatory, additional information** and **chemical resistance data sheets**.
2. **Certifications depend on colors in final product. More info in the additional information sheet.**

TEMPERATURE RESISTANCE	4
EASE OF PRINTING	9
VISUAL QUALITY	9
LAYER ADHESION	8
IMPACT RESISTANCE	7
MAXIMUM STRESS	7
ELONGATION AT BREAK	5

PRINT SETTINGS

Nozzle	200-230°C
Heatbed	20-60°C
Adhesive	not required
Speed	40-60mm/s
Cooling	30-100%

Recommended settings for printers with a 0.4mm Nozzle. Max. 50% layerheight. Optimal print settings may vary between different printers and also depend on environmental factors.

NEED HELP?

If you have any question about the product and/or you are experiencing an issue, please contact us via **support@extrudr.com**