



TECHNICAL DATA SHEET

PLA NX2

DESCRIPTION

PLA NX2 is made from a renewable biopolymer. It combines good mechanical properties with high flexibility, optimized impact strength and a matte surface finish. It is suitable for industrial use, rapid prototyping, architecture, food-applications, etc. The raw material is approved according to the REACH-, RoHS-, FDA- and „Safety-of-toys“-Standards. PLA NX2 is biodegradable according to EN 13432 standard.

FEATURES

- Smooth matte finish
- „Safety-of-Toys“ Compliant
- Optimized impact strength
- Low warping tendency
- Biodegradable

PROPERTIES

| 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/m ² | 7 |
| Unnotched impact strength | ISO 179/1eU | kJ/m ² | no break |
| VICAT A (VST) | ISO 306 | °C | 60* |
| Melting temperature | ISO 3146-C | °C | 180-200 |
| MFR | ISO 1133 | g/10min | 5 |
| Shrinking | ISO 294-4 | % | 0.3 |
| Density | ISO 1183 | g/cm ³ | 1.3 |

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

CERTIFICATIONS & ADDITIONAL INFORMATION



FREE OF
SILICONE



DEGRADABLE
ISO 13432

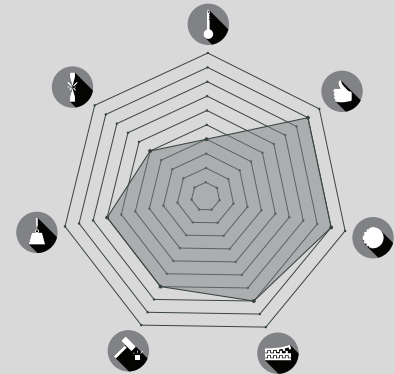


TOY-SAFE
COMPLIANT

For more information, check our [regulatory information](#) and [chemical resistance data sheets](#).

STORAGE AND SHELF LIFE

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



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 | up to 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@extruder.com

