

# TECHNICAL DATA SHEET

Date of issue: 20.06.2017 | Update: 03.04.2018 | Version: 2.10

# Z-PLA Pro

## Go into Details

Z-PLA Pro is a natural material which has been developed using biodegradable PLA as one of the components. Due to the highly reduced shrinkage level, this material allows you to print intricate shapes and objects rich in details with high dimensional accuracy. Z-PLA Pro exhibits exquisite surface quality that closely resembles the texture of gypsum casts. The excellent aesthetics of the 3D printed models makes Z-PLA Pro perfect for supporting artistic projects and creating sizeable architectural designs as well as mock-ups in a convenient and eco-friendly way.



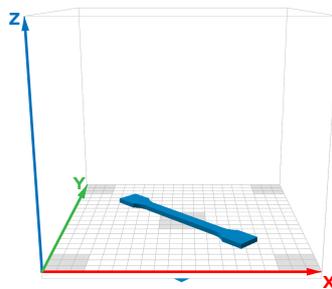
Mechanical Properties	Metric	English	Test Method
Tensile Strength	28.78 MPa	4170 psi	ISO 527:1998
Breaking Stress	27.10 MPa	3930 psi	ISO 527:1998
Elongation at max Tensile Stress	2.55%	2.55%	ISO 527:1998
Elongation at Break	4.05%	4.05%	ISO 527:1998
Bending Stress	58.60 MPa	8500 psi	ISO 178:2011
Flexural Modulus	1.83 GPa	265 ksi	ISO 178:2011
Izod Impact, Notched	2.58 kJ/m <sup>2</sup>	1.23 ft-lb/in <sup>2</sup>	ISO 180:2004
Thermal Properties	Metric	English	Test Method
Glass Transition Temperature	48.82° C	120° F	ISO 11357-3:2014
Other Properties	Metric	English	Test Method
Melt Flow Rate	92.75 g/10 min Load 2.16 kg Temperature 190° C	0.204 lb/10 min Load 4.76 lb Temperature 374° F	ISO 1133:2006
Specific Density	1.426 g/cm <sup>3</sup>	11.9 lb/gal	ISO 1183-3:2003
Shore Hardness (D)	77.6	77.6	ISO 868:1998

Compatible with	Layer Thickness Range		Available Colors			
ZORTRAX M200	0.09 mm	0.0035 in				
ZORTRAX M200 Plus	0.14 mm	0.0055 in				
ZORTRAX M300	0.19 mm	0.0075 in				
	0.29 mm	0.0114 in				

The data presented in this document are intended for information and comparison purposes only. They should not be used for project specifications or its quality evaluation. The material's actual properties depend on the printing process conditions, the design structure and its purpose, test conditions, etc.

Samples of Z-PLA Pro used to carry out the tests were built on Zortrax M200. The general print parameters utilized are noted below:

- Z-SUITE: v2.2.0.0
- Layer thickness: 0.19 mm;
- Quality: High;
- Seam: Normal;
- Infill: Solid,
- Fan Speed: Auto;
- Surface Layers:
  - Top: 7 (default);
  - Bottom: 4 (default);



Product specifications are subject to change without notice.

Each user is responsible for complying with product safety standards, its intended use as well as the law and waste disposal (and recycling) rules for electrical and electronic equipment. Zortrax does not make any express or implied warranties, including but not limited to implied warranties of merchantability or fitness for a particular purpose.



Zortrax S.A.  
 Lubelska 34  
 10-409 Olsztyn, Poland  
 NIP: 7393864289  
 REGON: 281551179

Contact  
 Office: office@zortrax.com  
 Sales Department: sales@zortrax.com  
 Support: support@zortrax.com