

# TECHNICAL DATA SHEET

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# Z-ASA Pro

## In All Weathers

Z-ASA Pro is a thermoplastic which is durable and exhibits superior resistance to external factors, including UV radiation and extreme weather conditions. Using Z-ASA Pro, you can 3D print models and prototypes which will withstand changing temperature, humidity or sunlight, and keep their initial shape and excellent aesthetics. Z-ASA Pro is a way to go for prototypes of sporting equipment and specialized tools, fadeproof models for outdoor purposes or unvarnished automotive elements. Since the weather cannot be changed, Z-ASA Pro is the right material which will help you extend the life span of 3D printed objects used outside.

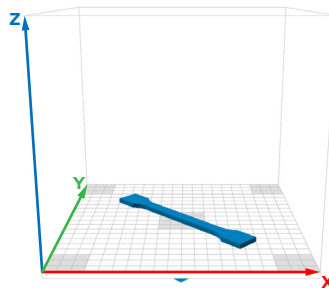


Mechanical Properties	Metric	Imperial	Test Method
Tensile Strength	24.21 MPa	3510 psi	ISO 527:1998
Breaking Stress	21.94 MPa	3180 psi	ISO 527:1998
Elongation at max Tensile Stress	2.64%	2.64%	ISO 527:1998
Elongation at Break	2.76%	2.76%	ISO 527:1998
Bending Stress	45.60 MPa	6610 psi	ISO 178:2011
Flexural Modulus	1.36 GPa	197 ksi	ISO 178:2011
Izod Impact, Notched	3.81 kJ/m <sup>2</sup>	1.81 ft-lb/in <sup>2</sup>	ISO 180:2004
Thermal Properties	Metric	Imperial	Test Method
Glass Transition Temperature	80.99° C	178° F	ISO 11357-3:2014
Other Properties	Metric	Imperial	Test Method
Melt Flow Rate	74.91 g/10 min Load 10 kg Temperature 220° C	0.165 lb/10 min Load 22 lb Temperature 428° F	ISO 1133:2006
Specific Density	1.176 g/cm <sup>3</sup>	9.81 lb/gal	ISO 1183-3:2003
Shore Hardness (D)	68.0	68.0	ISO 868:1998

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-ASA 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.

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