



ABS - Technical Data Sheet

TECHNICAL DATA SHEET

Date of issue: 01.01.2014 | Update: 03.01.2018 | Version: 2.00



Set the Standards

Z-ABS is a versatile and economic material which perfectly matches the needs of users who begin their work with 3D printing as well as professionals who want to make savings on in-house prototyping. With a wide selection of post-processing methods, either mechanical or chemical, Z-ABS becomes well-suited not only for producing affordable prototypes, but also for creative applications, such as conceptual models, gadgets or figurines. Z-ABS is something you seek for if you need to 3D print low-cost, attractive-looking objects or prototypes with functional requirements.



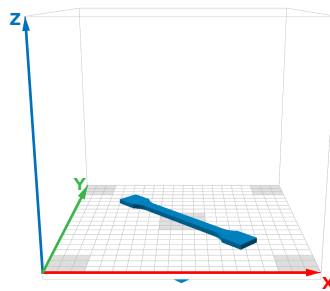
Mechanical Properties	Metric	English	Test Method
Tensile Strength	30.46 MPa	4420 psi	ISO 527:1998
Breaking Stress	25.89 MPa	3760 psi	ISO 527:1998
Elongation at max Tensile Stress	4.52%	4.52%	ISO 527:1998
Elongation at Break	11.08%	11.08%	ISO 527:1998
Bending Stress	46.30 MPa	6720 psi	ISO 178:2011
Flexural Modulus	1.08 GPa	157 ksi	ISO 178:2011
Izod Impact, Notched	8.93 kJ/m ²	4.25 ft-lb/in ²	ISO 180:2004
Thermal Properties	Metric	English	Test Method
Glass Transition Temperature	107.89° C	226° F	ISO 11357-3:2014
Other Properties	Metric	English	Test Method
Melt Flow Rate	11.75 g/10 min Load 10 kg Temperature 220° C	0.0259 lb/10 min Load 22 lb Temperature 428° F	ISO 1133:2006
Specific Density	1.195 g/cm ³	9.97 lb/gal	ISO 1183-3:2003
Shore Hardness (D)	69.2	69.2	ISO 868:1998

Compatible with	Layer Thickness Range		Available Colors				
ZORTRAX M200	0.09 mm	0.0035 in	blue	sky blue	android green	green	orange
	0.14 mm	0.0055 in					
	0.19 mm	0.0075 in	cool grey	pure white	pure black	red	warm grey
	0.29 mm	0.0114 in					
	0.39 mm	0.0154 in	yellow				

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-ABS 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.