

## Smooth and Stable

Z-HIPS is a versatile thermoplastic perfect for 3D printing prototypes which can be used in thorough tests before starting the production processes. It exhibits a high level of hardness, allowing you to complete durable prints without compromises on their quality. With Z-HIPS, your boldest models can acquire a unique, smooth, semimat surface and resemble elements manufactured with mass production plastics, therefore, imitate complete consumer products or end-use parts. Z-HIPS is also fully suited for creating prototypes of mechanical parts or casing elements for performance tests.

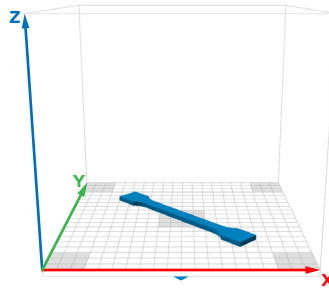


Mechanical Properties	Metric	Imperial	Test Method
Tensile Strength	16.90 MPa	2450 psi	ISO 527:1998
Breaking Stress	13.02 MPa	1890 psi	ISO 527:1998
Elongation at max Tensile Stress	1.87%	1.87%	ISO 527:1998
Elongation at Break	7.75%	7.75%	ISO 527:1998
Bending Stress	29.30 MPa	4250 psi	ISO 178:2011
Flexural Modulus	1.18 GPa	171 ksi	ISO 178:2011
Izod Impact, Notched	4.82 kJ/m <sup>2</sup>	2.29 ft-lb/in <sup>2</sup>	ISO 180:2004
Thermal Properties	Metric	Imperial	Test Method
Glass Transition Temperature	96.68° C	210° F	ISO 11357-3:2014
Other Properties	Metric	Imperial	Test Method
Melt Flow Rate	7.14 g/10 min Load 5 kg Temperature 200° C	0.0157 lb/10 min Load 11 lb Temperature 392° F	ISO 1133:2006
Specific Density	1.136 g/cm <sup>3</sup>	9.48 lb/gal	ISO 1183-3:2003
Shore Hardness (D)	73.2	73.2	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-HIPS 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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