

# TECHNICAL DATA SHEET

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**Zortrax Resin Tough Clear** is a unique photopolymer resin that allows makers to successfully print translucent and glass-like objects. The resin is tough, impact resistance, and offers smooth surfaces. 3D prints can mimic glass in designs where visual aspects are important for the project's assessment. Resin Tough Clear has no pungent odor.

## Applications:

end-use products, transparent prototypes, engineering prototypes, jigs and fixtures, conceptual models, products' casing, lighting elements, research utensils and accessories, decorative pieces.

Mechanical Properties	Metric	Imperial	Test Method
Izod Impact, Notched	2.7 KJ/m <sup>2</sup>	1.28 ft-lb/in <sup>2</sup>	ASTM D256-10
Flexural Strength	77.3 MPa	11200 psi	ASTM D790-10
Flexural Modulus	1789.3 MPa	260 ksi	ASTM D790-10
Tensile Strength	65.3 MPa	9470 psi	ASTM D638-14
Elastic Modulus	771.3 MPa	112 ksi	ASTM D638-14
Elongation at Break	10.4%	10.4%	ASTM D638-14
Other Properties	Metric	Imperial	Test Method
Liquid Density	1.115 g/cm <sup>3</sup>	9.31 lb/gal	ASTM D647-12
Solid Density	1.201 g/cm <sup>3</sup>	10 lb/gal	ASTM D647-12
Viscosity	396 MPa*s	0,00827 lbf-s/ft <sup>2</sup>	ASTM D4212-10
Shore Hardness (D)	90	90	ASTM D2240-05

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.

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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