

zortrax

dedicated

MATERIALS



print anything
you want.

Zortrax **MATERIALS** comparison.

material	Z-HIPS	Z-GLASS	Z-PETG	Z-ULTRAT	Z-PCABS	Z-ABS	Z-ULTRAT Plus
dedicated to	Zortrax M200 and Zortrax M300			Zortrax M200		Zortrax Inventure	
type	spool			cartridge			
technology	LPD			LPD Plus			
support material structure	printed with the same material, mechanically removed			printed with separate material, soluble			
hardware requirements	×	Hotend V2	Hotend V2	×	×	×	×
surface	mat	gloss and translucent	gloss	semi-gloss	semi-mat	mat	semi-gloss
hardness	low	medium	medium	high	high	medium	high
elasticity	medium	high	high	medium	medium	medium	medium
impact strength	high	medium	medium	medium	medium	medium	high
tensile strength	high	high	high	medium	high	low	medium
shrinkage	low	very low	very low	medium	high	high	medium
mechanical treatment	✓	✓	✓	✓	✓	✓	✓
chemical treatment (acetone)	×	×	×	✓	×	✓	✓
resistance to	—	salts, acids, alkalis, and solvents		—	temperatures		—



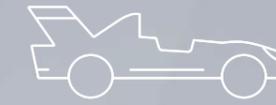
NOTE
Final effect of 3D printed models depend on many factors, such as: proper preparation of a 3D model for 3D printing, selecting optimal type of material, selecting optimal settings in Z-SUITE software, maintenance and calibration of the 3D printer, proper preparation and calibration of the platform, use of side covers (in case of Zortrax M200 and Zortrax M300). Zortrax S.A. is not responsible for any damage of machines and low printing quality caused by the use of different materials than authorized by Zortrax S.A. Color of the materials presented in the offer may differ depending on the way of presentation (screen settings, type of print or paper), production batch or way of storage (exposition to light or other external factors). Material should be stored in its original packaging (foil to protect against light and moisture) before they are used.

from medicine **TO ENGINEERING.**

The additive manufacturing materials that make more out of 3D printing.



architecture



automotive



engineering



medicine



education



consumer products

Zortrax **ECOSYSTEM.**

We believe that the operating ease makes the solution smart. Therefore, Zortrax products form together an integrated ecosystem - professional 3D printers, compatible materials, and dedicated software. Thanks to this, you can easily achieve high-quality prints, dimensional accuracy, and repeatability. Forget about the hassle of adjusting the equipment for third-party materials or software. Everything you need is already in the box, waiting for you to start.



Z-SUITE Software

Perfectly integrated with the machine, helps convert 3D model files and is compatible with most of the 3D design software.



printing Materials

A wide range of carefully picked colors, only quality materials, exceptional printing features.



3D Printers

Reliable and almost maintenance-free, working out of the box, tested by thousands of users worldwide.

Only dedicated Zortrax Materials guarantee high quality prints.

Z-ULTRAT



Z-HIPS



strength lays in DURABILITY.

We don't waste our breath when talking about having your work done in-house. Especially, when you can use a versatile material and prototype models with features of products manufactured using injection molding technology. Z-ULTRAT, the strong, stable, time-resistant, and available in a wide range of colors is also suitable for mechanical and chemical post-processing. Use it to try out your project before starting mass production. Find your strength in a color of your choice.

applications:

- functional prototypes
- end-use parts
- casing prototypes for testing
- end-use casing parts for low volume production
- prototypes of consumer products
- mechanical parts
- parts simulating properties of elements made using injection molding
- elements required to be durable and stable over time

available for:



colors:



zortrax

the factor of ABILITIES.

Exposing your idea is as important as the idea itself. Use Z-HIPS to significantly reduce warping and visibly shorten the time you're spending on post-processing. Its unique mat structure absorbs light and reduces the visibility of minor flaws, giving its casings prototypes that catching look. The material gives you the ability to print bigger parts, housing or architectural prototypes. Use it any way you want.

applications:

- models with large, flat surfaces
- architecture mockups
- casing elements for testing
- end-use casing parts for low volume production
- prototypes of mechanical parts
- prototypes of consumer products

available for:



colors:



zortrax

Z-GLASS



see THROUGH.

Now, you can print with material that imitates the glass translucent structure and show what's hidden. Unfold the imagination of your customers and get the ability to make an exact replica of your project. Its light-transmitting surface makes it applicable in automotive, industrial design, and architecture projects. Z-GLASS is also resistant to salts, acids, alkalis, and solvents so that you don't have to be worried of exposing your project to chemicals.

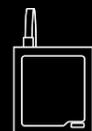
applications:

- concept models which are to imitate glass or translucent plastic
- functional prototypes of translucent objects
- translucent decorative elements
- parts required to be resistant to salts, acids, alkalis, and solvents

available for:



zortrax
M200



zortrax
M300



natural
transparent

colors:

zortrax

Z-PETG



take the CHALLENGE.

Designing and prototyping are all about the right choices. That's why it's so important to use durable material like Z-PETG. It's highly resistant to salts, acids, alkalis, and solvents. The models printed with Z-PETG have a glossy surface that is also resistant to impact, time and UV light. Now, you can create diverse and challenging parts.

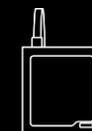
applications:

- parts required being resistant to salts, acids, alkalis, and solvents
- machine components
- elements requiring resistance to greases and oils
- packaging prototypes
- prototypes of mechanical parts

available for:



zortrax
M200



zortrax
M300



grey, black

colors:

zortrax

Z-PCABS



prepare yourself for **THE HEAT.**

What'll we get if we combine two durable materials? Z-PCABS, the durable and impact resistant material that is suited for producing casings. It's resistant to temperatures, UV lights, and chemicals. The durability and the resistance to temperature made it a great material for automotive. Heat your prototype up with no consequences.

applications:

- consumer electronics casings
- automotive parts
- parts required to be resistant to temperatures
- structural components

available for:



zortrax
M200

colors:



ivory

Z-ABS



basic doesn't mean **SIMPLE.**

If you're looking for a good material to start with - you've just found it. Z-ABS is great for printing concept models, mockups, gadgets or figurines. You can choose from a wide range of colors to catch the attention to your project. Z-ABS will be your good comrade - useful at the beginning, helpful in the half-way, and you can always count on it even at the final stage.

applications:

- concept models
- gadgets and figurines
- display models
- models with moderate functional and testing properties

available for:



zortrax
M200

colors:



Z-ULTRAT Plus®



precision for **COMPLEXITY**.

Forewarned is forearmed. That's why testing your project before mass production is the ultimate rule. Available in a cartridge, Z-ULTRAT Plus is perfect for creating complex and demanding objects with features similar to the manufactured products. Print super advanced, durable objects and moving mechanism in just one element.

applications:

- functional prototypes
- end-use parts
- complex moving parts 3D printed as one element
- prototypes reflecting properties and look of end use products
- advanced and complex architecture mockups
- small elements with many details
- parts requiring high dimensional accuracy
- mechanical parts
- models with complex shape, difficult to obtain in other rapid prototyping technologies

available for:



colors:

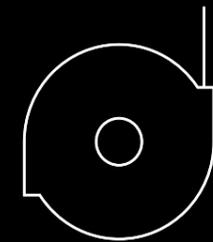


Z-SUPPORT and DSS®



DSS say no more to mechanical support removal.

DSS (Dissolvable Support System) is the technology based on an easily removable support made from a soluble substance. Just put the model into the DSS station containing the water-based solution and leave it for some time. Z-SUPPORT will dissolve completely and you will find your model smooth and free from residue.



DISSOLVE your problems.

If you could only dissolve the problem, right? We thought about the same thing while creating Z-SUPPORT, the support material that dissolves in liquid. This ultimate support material combined with Z-ULTRAT Plus allows to create complex prototypes of intricate shapes and moving mechanisms, and all printed in one part. Available in a cartridge.

available for:



how it works:



zortrax

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office@zortrax.com

sales department:

sales@zortrax.com

technical support:

support@zortrax.com

find a local Reseller: zortrax.com/resellers

more info at: zortrax.com

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