dedicated MATERIALS

print anything you want.
Zortrax MATERIALLS comparison.

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<tbody>
<tr>
<td>Dedicated to</td>
<td>Zortrax M200 and Zortrax M300</td>
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<td>Zortrax M200</td>
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<td>Zortrax Inventuere</td>
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<tr>
<td>Type</td>
<td>spool</td>
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<td>cartridge</td>
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<td>Technology</td>
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<tr>
<td>Support material structure</td>
<td>printed with the same material; mechanically removed</td>
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<td>printed with separate material; soluble</td>
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<tr>
<td>Hardware requirements</td>
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<tr>
<td>Surface</td>
<td>semi-mat</td>
<td>mat</td>
<td>glass and translucent</td>
<td>glass</td>
<td>semi-mat</td>
<td>mat</td>
<td>semi-gloss</td>
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<tr>
<td>Hardness</td>
<td>high</td>
<td>low</td>
<td>medium</td>
<td>medium</td>
<td>high</td>
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<tr>
<td>Elasticity</td>
<td>medium</td>
<td>medium</td>
<td>high</td>
<td>high</td>
<td>medium</td>
<td>medium</td>
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<tr>
<td>Impact strength</td>
<td>medium</td>
<td>high</td>
<td>medium</td>
<td>medium</td>
<td>medium</td>
<td>medium</td>
<td>high</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>low</td>
<td>high</td>
<td>high</td>
<td>high</td>
<td>high</td>
<td>low</td>
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<tr>
<td>Shrinkage</td>
<td>low</td>
<td>very low</td>
<td>very low</td>
<td>very low</td>
<td>high</td>
<td>medium</td>
<td>low</td>
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<tr>
<td>Mechanical treatment</td>
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<tr>
<td>Chemical treatment (acetone)</td>
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<tr>
<td>Resistance to</td>
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<td>solvents</td>
<td>salts</td>
<td>acids</td>
<td>alkalis</td>
<td></td>
<td>solvents</td>
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</tbody>
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NOTE: Final results 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). Materials should be stored in its original packaging (foil protecting from light and moisture) before they are used.
from medicine TO ENGINEERING.
The additive manufacturing materials that make more out of 3D printing.

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 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.
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:**
- zortrax M200
- zortrax M300

**colors:**
- basic: blue, yellow, green, cool grey, ivory, pure black, red
- neutrals*: nude, magenta, olive, brown
- neon*: neon blue, neon green, neon yellow, neon orange, neon red, neon pink
- pastels*: pastel yellow, pastel pink, pastel purple, pastel blue, pastel turquoise

* exclusively for Zortrax M200
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 matte structure absorbs light and reduces the visibility of minor flaws, giving its casings prototypes that catching look. The material, also resistant to solvents, gives you the ability to print bigger parts, housing or architectural prototypes. Use it however 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
- parts requiring resistance to acetone and solvents

**available for:**
- zortrax M200
- zortrax M300

**colors:**
- grey
- natural white
- black
see THROUGH.

Now, you can print with materials imitating 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, and alkalis 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 or alkalis

available for: colors:

- Zortrax M200
- Zortrax M300
- natural transparent
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, and alkalis. 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 to be resistant to salts, acids or alkalis
- machine components
- elements requiring resistance to greases and oils
- packaging prototypes
- prototypes of mechanical parts

**available for:**
- zortrax M200
- zortrax M300

**colors:**
- grey
- black
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 temperature
- structural components

**available for:**
- Z-PCABS
- M200

**colors:**
- Ivory
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: 

<table>
<thead>
<tr>
<th>Zortrax</th>
<th>M200</th>
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colors:
- blue
- sky blue
- android green
- green
- orange
- cool grey
- pure white
- pure black
- red
- warm grey
- yellow
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 mechanisms 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:
  - blue
  - yellow
  - green
  - cool grey
  - ivory
  - pure black
  - red
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: zortrax
inventure

now it works:

put the model into the liquid in DSS station.
wait until the support disappears completely.
have your model cleared, with a flawless surface.