



Organic Chess 2021 storage/transport box



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Summary

A simple, modular storagebox with lid for the organic chess set for PRUSA MINI (18cm/85% original!)

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Tags: [chess](#) [storagebox](#)

My daughter loves playing chess, but the **magnificent pieces** by **NTX9** often fall out the original box when she tries to relocate.

Therefor I made a remix that allows for a lid to slide in front of the pieces. The lid is of course based on the pieces themselves, but with added supports for printing purposes.

The box itself is also modular. The same sliding mechanism is in place at the bottom so you can add 2 (or more) boxes together.

It fits a Mini! Important information about the model size.

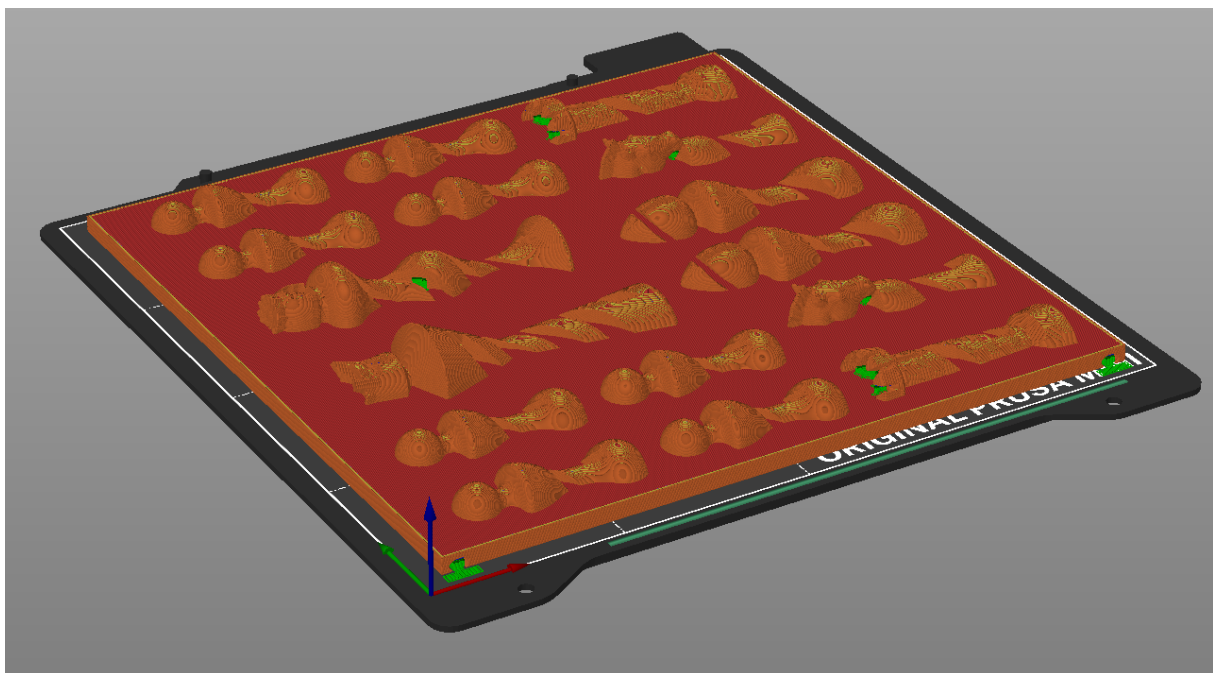
This model has been designed to fit a Prusa Mini with a heatbed of **18 x 18cm**. This requires the pieces of the organic chess set to be printed at **85%** since the source of this remix is **20 cm x 20 cm (at 100%)**.

If you want to use this box for the original set (at 100%) print this box scaled up to **117.65%**!

How to print

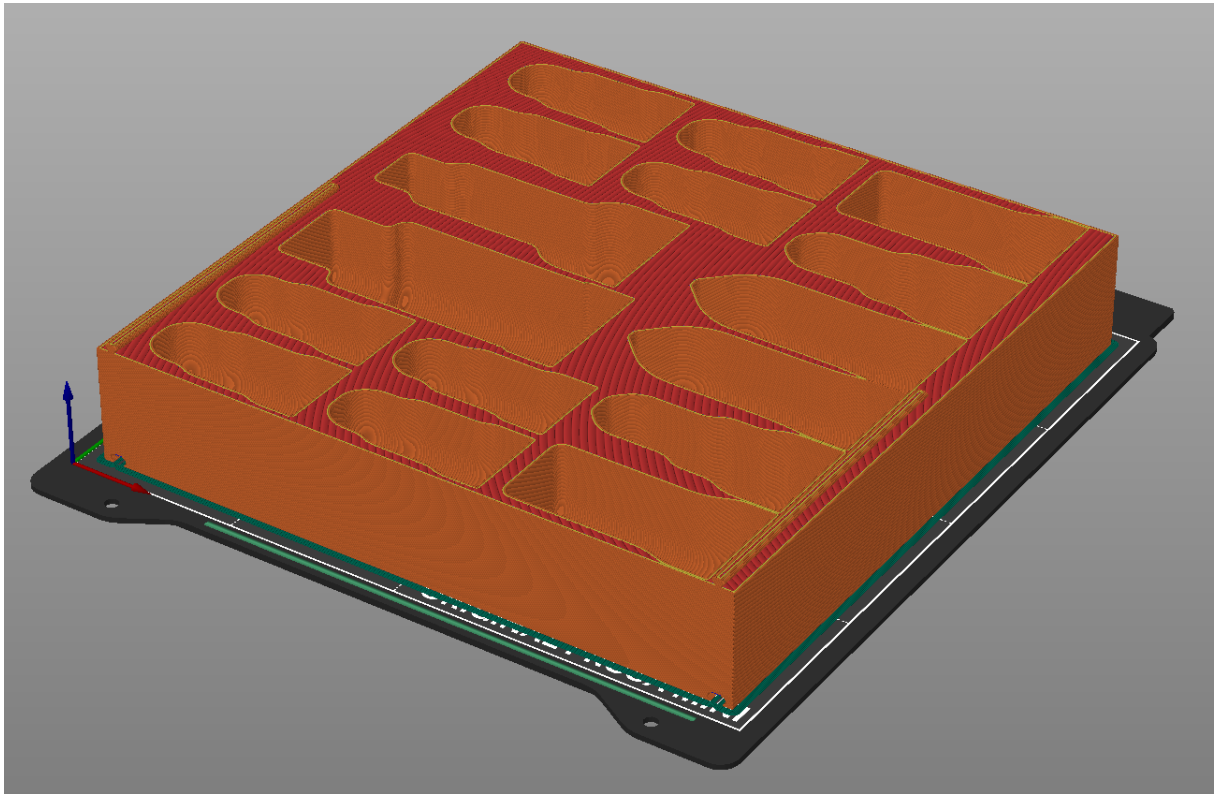
• The lid

- I've printed mine in PLA (Prusament recycled + Oh My Gold / Marble).
 - You can change color on 4.40mm to emphasize the chess pieces.
- Print lying on its back.
- Layer height: 0.15mm
 - You can use 0.2mm from layer height 0.00 to 4.40 to speed things up.
- 2 perimeters
- Infill: 20% support cubic works well.
- Supports:
 - I've used snug supports
 - with a overhang threshold of 12°. This should result in some easy to remove supports on the knights, towers and queen.
 - the slide extrude does not require supports (**read below!**)
- Brim: 2mm advised (**read below!**)



• The box

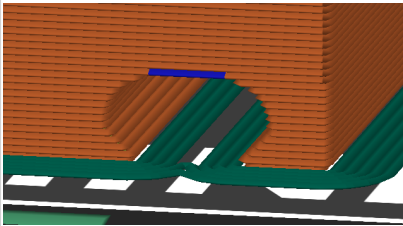
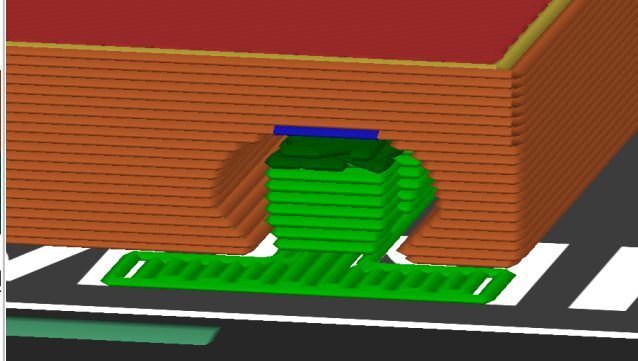
- I've printed mine in PLA (Prusament recycled)
- Print lying on its back.
- Layer height: 0.20mm
- 2 perimeters
- Infill: anything you want as long as it's fine enough to bridge for all the surfaces. I've used 30% lightning which works marvelous.
- Supports are not required (**read below!**)
- Brim: 2mm advised (**read below!**)



Note about supports and brim

I've had issues with the extruded slides where the smallest piece (outside) would detach from the print plate and warp upwards. Prints with supports in the slide (without brim) or with a 2mm brim seems to be working. Use what you think works best on your machine!

Manually adding a rectangle in PrusaSlicer to use as a brim is also a possibility but I haven't used it personally.

	
<p>Brim of 2mm. The rest of the box/lid doesn't really need the brim though.</p>	<p>A (snug) support also helped prevent warping. You need to clean the supports out thoroughly if you want a smooth slide.</p>

Tolerances

Note that I've designed the tolerances off the slide to work on my machine (a Prusa mini). Since my printbed is only 180mm, my prints are scaled down to 85% off the original (5% extra to account for brim)! Please comment with constructive feedback how the tolerances are if you print it at full scale.

Support

If you like my effort, give this design a like and share makes!

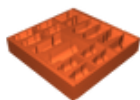
This remix is based on



Organic Chess 2021

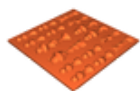
by NTX9

Model files



box.stl

Size 18cm x 18cm! Scale up to 117.65% for use with original set (at 100%)



box-lid.stl

Size 18cm x 18cm! Scale up to 117.65% for use with original set (at 100%)

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