



## XL D20 Box



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### Summary

I designed this XL-sized D20 for printing on my Prusa XL.



62.11 hrs



3 pcs



0.20 mm  
0.32 mm



0.60 mm



PLA



1762 g



Prusa XL

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Tags: [multicolor](#) [d20](#) [icosahedron](#) [prusaxl](#)

I designed this XL D20 for printing on my Prusa XL. I used organic supports, but considering the underside looked perfect and the supports just popped off in one piece, I wonder if they were ever really needed.


This is printed in two parts. the first is the “top” of the die and includes the “20” face (in a separate color) and 4 others. The top is held to the bottom (all remaining faces) via 10 of 16mm diameter x 1.6mm neodymium magnets. The whole die can then be opened and used for hidden storage. =)


The PrusaSlicer projects for the die parts have pre-defined pauses at the right layers for inserting the magnets. Make sure you orient them correctly so that the lid will be attracted to the base.


For single-color prints, convert all the numerals into negative volumes in PrusaSlicer! They are all 2mm deep into the faces.

STEP files are included if you want to customize for your own needs.

## Model files

 **STEP files** 2 files

 **d20.step**

 **stand.step**



**base.3mf**



**lid.3mf**



**stand.3mf**

## Print files



**stand\_06n\_02mm\_pla\_xlis\_1h48m.bgcode**

🌀 PLA 🌀 0.60 mm 🌀 0.20 mm 🕒 1.79 hrs 📊 51 g



### box-lid\_06n\_032mm\_plaplapla\_xlis\_18h47m.bgcode

🌀 PLA 📏 0.60 mm 📏 0.32 mm ⌚ 18.79 hrs ⚖️ 472 g



### box-base\_06n\_032mm\_plaplapla\_xlis\_1d17h32m.bgcode

🌀 PLA 📏 0.60 mm 📏 0.32 mm ⌚ 41.53 hrs ⚖️ 1240 g

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