



Desiccant Spool Container with a twist



cmyk

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Summary

42% of the surface is non-existent. Meaning air flow. Cylinder prints flat. Roll it!

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I needed a better desiccant container solution for my cereal box spool containers.

Most models take too long to print and do not have enough holes.

My design is 45% nothing. Meaning holes. Meaning air can flow freely.

It uses 14g of filament and prints in about 1h-1.5h, depending on printer and filament.

The container should fit most spools.

54mm in diameter and 76mm long.

Print settings

I provided OrcaSlicer and PrusaSlicer .3mf files. The way they each handle modifiers is sadly not interchangeable. The modifier (box on cylinder

sheet) sets walls to 1 for faster printing.

0.4mm nozzle

0.2mm layer height

I used PLA and PETG so far.

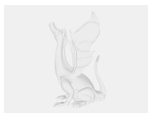
In PETG the first layer was tricky. Had to up the bed temp to 85°, nozzle to 235° and slow down to 30 mm/s for the first layer. Depends also on your print plate. I used a structured carbon plate (see last 2 photos).

Assembling it is easy and takes about 30 seconds. Okay, maybe not the first time. ;)

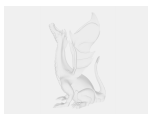
If you like the model, add a build.

Feedback welcome!

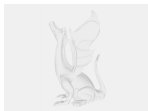
Model files



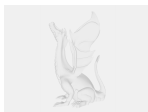
lid-connector.step



lid.step



bottom.step



sheet.step



printami-desiccant-spool-container-prusaslicer.3mf



printami-desiccant-spool-container-orcaslicer.3mf

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