Fast-printing open dehumidifier bag container

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VIEW IN BROWSER

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Summary

Quickly printable, sturdy, lightweight container for 250g dehumidifier bags (Calcium Chloride)

Household > Other House Equipment

Tags: container fastprint desicant dehumidifier chloride calcium

This design is a container for a 250g bag of dehumidifier (Calcium Chloride or similar). I've made the model for quick printing, and it takes approximately 1 hour.

Material Recommendations: tested with PLA and PTEG, both are fine. Remember it has to hold liquid.

Printing Instructions:

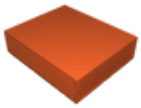
- I slice it as a “pseudo-vase” print
- **Layer height:** 0.3 mm
- **Walls:** 2 loops
- **Infill:** 0
- **Top Layer:** 0
- **Supports:** not needed

- **Bottom Layers:** 4 (for improved chances of waterproofness)

Since Calcium Chloride will release liquid over time as it absorbs moisture, it's important to ensure the container is waterproof. I recommend testing the print for waterproofness before use. (My result with these settings is 5 out of 7)

Customization: The source OpenSCAD file is attached, allowing for easy modifications to suit different volumes as per your needs. Or you can just scale it in the slicer.
UPD:
- after a couple of months with my humidity, I decided to make a higher version (55mm). I had to empty the original ones (35mm) every second day.
- surprisingly, PLA boxes perform better than PETG ones. I had to replace a few PETG boxes after a few weeks, but the PLA ones stayed watertight.

Model files



desicant-container-125x105x355.stl

desicant-container-125x105x555.stl

higher version

dsc-vm.scad

OpenSCAD source

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