

Silica Gel Desiccant Box for Sunlu S2 Filament Dryer

j **jornamon**

VIEW IN BROWSER

updated 2. 7. 2023 | published 2. 7. 2023

Summary

Silica Gel Desiccant Box for Sunlu S2 Filament Dryer

[3D Printers](#) > [Accessories](#)

Tags: [sunlus2](#) [desiccant](#) [sunlu](#) [silicagel](#) [dehumidifier](#)
[drybox](#) [dryer](#)

Enhance your Sunlu S2 filament dryer's performance with this breathable silica gel desiccant box. Designed to perfectly fit inside your Sunlu S2, this box needs no additional hardware or modifications.

The box is designed to hold either silica gel packets or beads, creating a drier environment for your filament. This environment will help when drying and storing your filament inside the dryer. Furthermore, if you print directly from the dryer, this box will help maintain dryness for longer.

The lid of the box is designed to snap-fit securely, while the legs sit comfortably atop the bearings and surrounding plastic (refer to images for clarity). To ensure optimum performance, remember to regularly renew or change your silica gel beads or packets according to the manufacturer instructions.

Examples of suitable packets: <https://a.co/d/2I7TzvW>

Examples of suitable beads: <https://a.co/d/bq2aQxQ>

I uploaded you the STEP file for your remixing pleasure.

Printing instructions

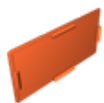
Material: I recommend using ABS or ASA to withstand the high temperatures inside the dryer.

Layer Height: For the smaller latches to function properly, a detailed print is needed. Opt for a layer height of 0.16mm or lower. For other parts of the box not needing as much detail, you may consider using variable layer height to quicken the print process.

Supports: Supports are only necessary for the legs of the box. Cleaning these small supports might be challenging, and completely removing all supports is necessary for proper fitting. I achieved satisfactory results by manually painting the supports, focusing on generating support under the rectangular rod and the tip that goes over the bearing (the part with a circular cut).

Infill and Shells: The hole pattern seen in the design is actually the infill from the slicer, meaning the model must be printed with 0 bottom and top shell layers. I used a 60% grid infill, customized for my 2-4mm diameter beads. You can adjust your infill settings to alter the pattern and hole sizes. To optimize settings, consider testing on a small rectangle before proceeding with the full print.

Model files



lid.stl

☐ Lid



box.stl

☐ Box



sunlu-s2-desiccant-box.step

☐ CAD STEP file

License

This work is licensed under a
Creative Commons (4.0 International License)



Attribution-ShareAlike

-
- ✗ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✓ | Commercial Use
 - ✓ | Free Cultural Works
 - ✓ | Meets Open Definition