

Never lost Ikea Samla Clip (45l + 65l) V2



Canislupus

[VIEW IN BROWSER](#)

updated 12. 1. 2023 | published 12. 1. 2023

Summary

Print-in-place hinged Ikea Samla Clip. Attaches to Ikea Samla 45l and 65l boxes. Designed for 3mm sealing foam.



4.28 hrs



3 pcs



0.20 mm



0.40 mm



PLA
PET



41 g



Prusa
MK3S/S+ &
MMU2S

[Hobby & Makers](#) > [Organizers](#)

Tags: [drybox](#) [hinged](#) [ikea](#) [printinplace](#) [samla](#) [samlaclips](#)
[samla65l](#) [samla45l](#)

Summary

Are you tired of searching your clips for your airtight Samla box once opened? You like the simplicity of print-in-place parts? Then this Samla clip is for you. The only thing you need are some drops of glue to fix the clips.

Motivation

I started using boxes from another brand named Iris that already come with sealing and clips attached to the box. But because these boxes got ridiculous expensive here in Germany I rather thought of upgrading to a less expensive but still functional box. Ikea comes with one of the best price/value for a storage box named "Samla". So I decided to design my drybox based on Ikea Samla. I choose the 45l sized box. The clip design here fits the 65l box as well because they share the same lid. Another advantage I recognized later on is that the Samla boxes are more transparent. So you can better see the inside of the box compared to more "foggy" transparency of other boxes.

As an airtight sealing needs a clip for compressing the sealing foam between lid and box I needed clips for it. There are plenty designs around the different boxes and adapted to different sizes and sealing media. The one thing that annoyed me most was that the clips were not attached to the box and tended to drop off and get lost during opening and closing the box. So I thought of a solution addressing that:

- I remixed one of the existing Samla clip designs that I liked most.
- I remixed a print-in-place hinge with the clip on one side and a rail piece on the other side that fits nicely beneath the edge of the box. The whole resulting clip should also come as a print-in-place solution.
- I designed a rail piece as base for the hinge so that it can be glued to the outside U-shaped frame of the box.

Reused Projects

- [[Ikea Samla box | 3D CAD Model Library | GrabCAD](#)] for extracting the dimensions of the rail
- [[45l IKEA Samla Filament Box clip by krn | Thingiverse](#)] which is a remix of [[Ikea Samla Clip. The best one. Period. \(5.11.22.45.65 Liter\) by Wookbert | Thingiverse](#)] as base clip design.
- [[Hinged Cable Clip by Jerrari | PrusaPrinters](#)] for fixing the clip in a hinged fashion to the rail.

Non-printed Material

The clip is designed for a thickness of 3mm of the sealing foam. I used this one ([Ratel Black Rubber Weatherstrip Foam : Amazon.de: DIY & Tools](#)) which is 6mm x 3mm. I propose to glue the strip onto the box and not onto the lid because you can exactly position it to the flat area that makes up the contact area between box and lid. Finding the right position when trying to glue it to the lid may be more difficult.

Glueing the clip to the box depends on the type of glue you are using. I made best experience with a glue typically used for PVC ([Tangit PVC-U](#)

Plus). After some sanding of the perfectly smooth box plastic surface (only inside the U-shape) this glue works very well for me.

Print Settings

Filament: PLA/PETG
Nozzle Size: 0.4mm
Print Height: 0.2mm
Supports: None
Perimeters: 3
Infill: 10-20%
Brim: 3mm

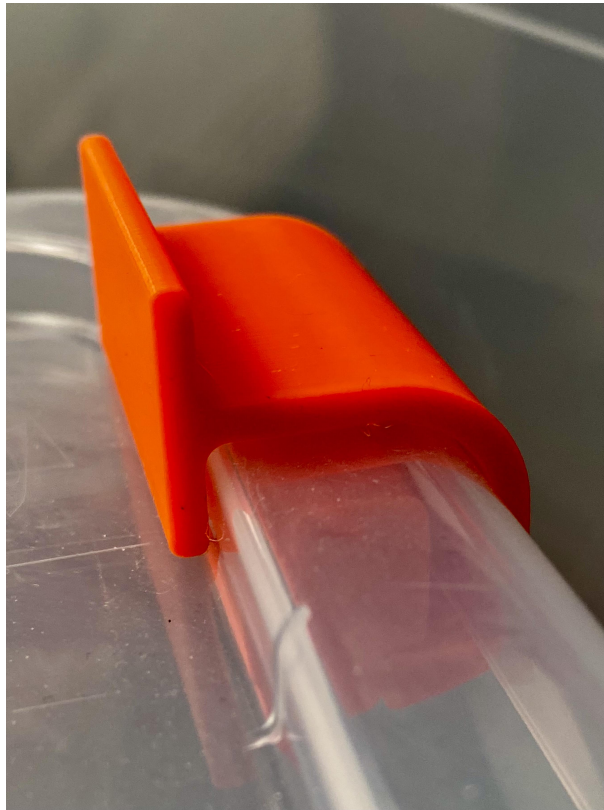
Printing Tipps

Print the clip in a vertical position, so that the clip has the strongest structure along the clipping direction. Print w/o supports. I propose a brim, especially when printing in PLA.

8 clips for 1 box need approx. 100g filament.

Update for V2

- This V2 update is for stapling 5l/11l boxes onto 45l/65l boxes. 22l boxes can be stapled on 45l/65l boxes w/o update.
- You may also switch to version V2 of the clip if you want a similar design when also printing the **5l/11l/22l version of the clip**.
- The V2 version offers a slightly better grip for mounting and unmounting the clips because of the larger 'T'-shaped clip arm. Other parts of the clip were untouched.



- Please forgive any misfits of the clips. I recognized at least that some details of the Ikea Samla boxes and lids may differ if purchased at different dates or locations.
- Please also see [Never Lost Samla Clip \(5l+11l+22l\)](#) if you own one of the smaller boxes.

This remix is based on



Hinged Cable Clip

by Jerrari

Model files

never-lost-ikea-samla-clip-45l65l-v2.stl



never-lost-ikea-samla-clip-45l65l.stl

Print files



never-lost-ikea-samla-clip-45l-65l-02mm_pla_mk3.gcode

PLA 0.40 mm 0.20 mm 1.43 hrs 13 g

Prusa MK3S/S+ & MMU2S

never-lost-ikea-samla-clip-45l65l-v2_02mm_petg_mk3s... .gcode

PET 0.40 mm 0.20 mm 1.42 hrs 14 g Prusa MK3S/S+ & MMU2S

never-lost-ikea-samla-clip-45l65l-v2_02mm_pla_mk3sm... .gcode

PLA 0.40 mm 0.20 mm 1.43 hrs 14 g Prusa MK3S/S+ & MMU2S

License

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



Attribution-NonCommercial

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