Printables by JOSEF PRUSA



Kitchen & Bathroom Sink Drain Strainers, Stoppers, Pads

DesignCraft

VIEW IN BROWSER

updated 9. 11. 2023 | published 9. 11. 2023

Summary

A collection of kitchen and utility sink strainers, a bathroom sink strainer and stopper, and various drain pads.

Household > Bathroom

Tags: kitchen bathtub voronoi plug replacement bathroom cover stopper sink drain utility basket tub drainstrainer replacementparts draincover strainer bathroomsink kitchensink utilitysink drainstopper drainpad

A collection of kitchen and bathroom drain strainers, stoppers, and drain pads. Useful for kitchen sinks, bathroom sinks, utility sinks, bathtubs, and probably more!

Before printing, please review the list of models and their respective measurements followed by some additional notes.

General Notes:

- The only model that requires support is Part 4 (sink_stopper_4_fin) of the **Bathroom Sink Drain Stopper (Experimental).**

- No brim is necessary for any of these models.
- Concentric or Archimedean Chords for top and bottom surface patterns works well for many of these models as they're circular.

Kitchen Sink Drain Strainer

- 111.5mm outer diameter
- 66mm basket diameter
- 32.6mm basket depth

Voronoi Kitchen Sink Drain Strainer (Experimental)

- 111.5mm outer diameter
- 68mm basket diameter
- 36.3mm basket depth

Utility Sink Drain Strainer

- 72mm outer diameter
- 42.6mm basket diameter
- 25mm basket depth

Bathroom Sink Drain Strainer

- 33mm top diameter
- 26mm basket diameter
- 51mm height

Bathroom Sink Drain Stopper (Experimental)

- 33mm top diameter
- 28mm shaft diameter
- 130mm height
- The ring (part 5) must be printed in TPU filament (or similar)

Large Drain Stopper Pad

- 150mm diameter
- TPU filament (or similar)
- Engineering plate (or similar smooth built plate)

Medium Drain Stopper Pad

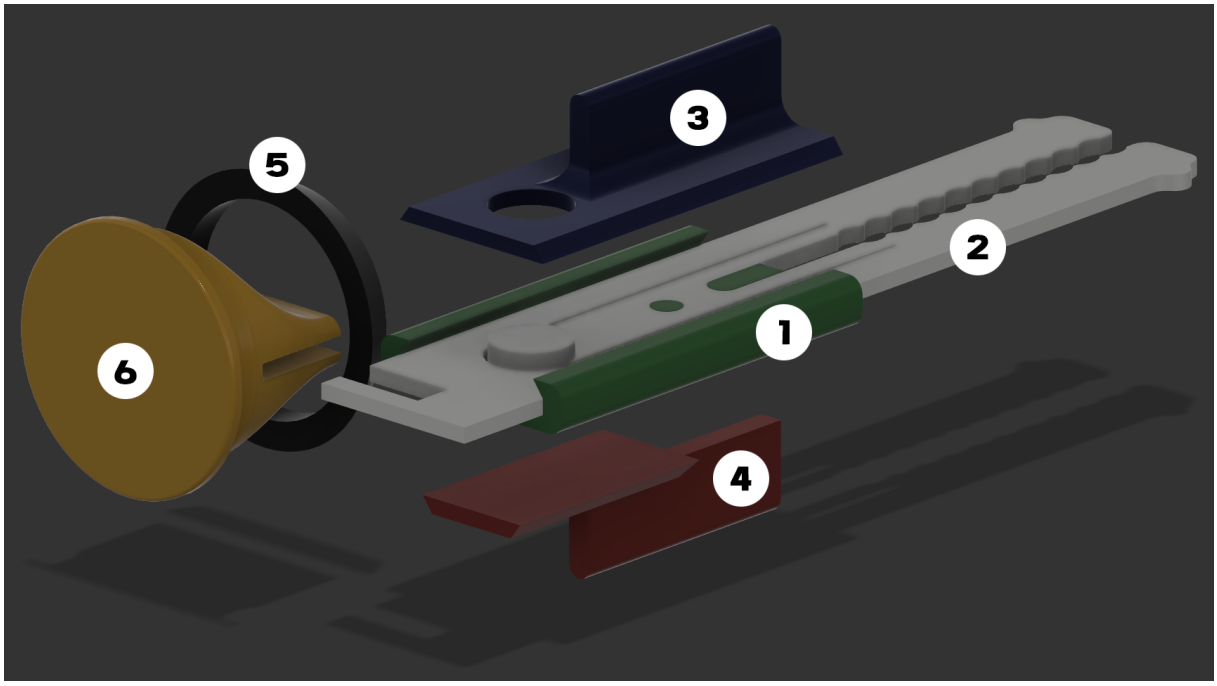
- 100mm diameter
- TPU filament (or similar)
- Engineering plate (or similar smooth built plate)

Small Drain Stopper Pad

- 50mm diameter

- TPU filament (or similar)
- Engineering plate (or similar smooth built plate)

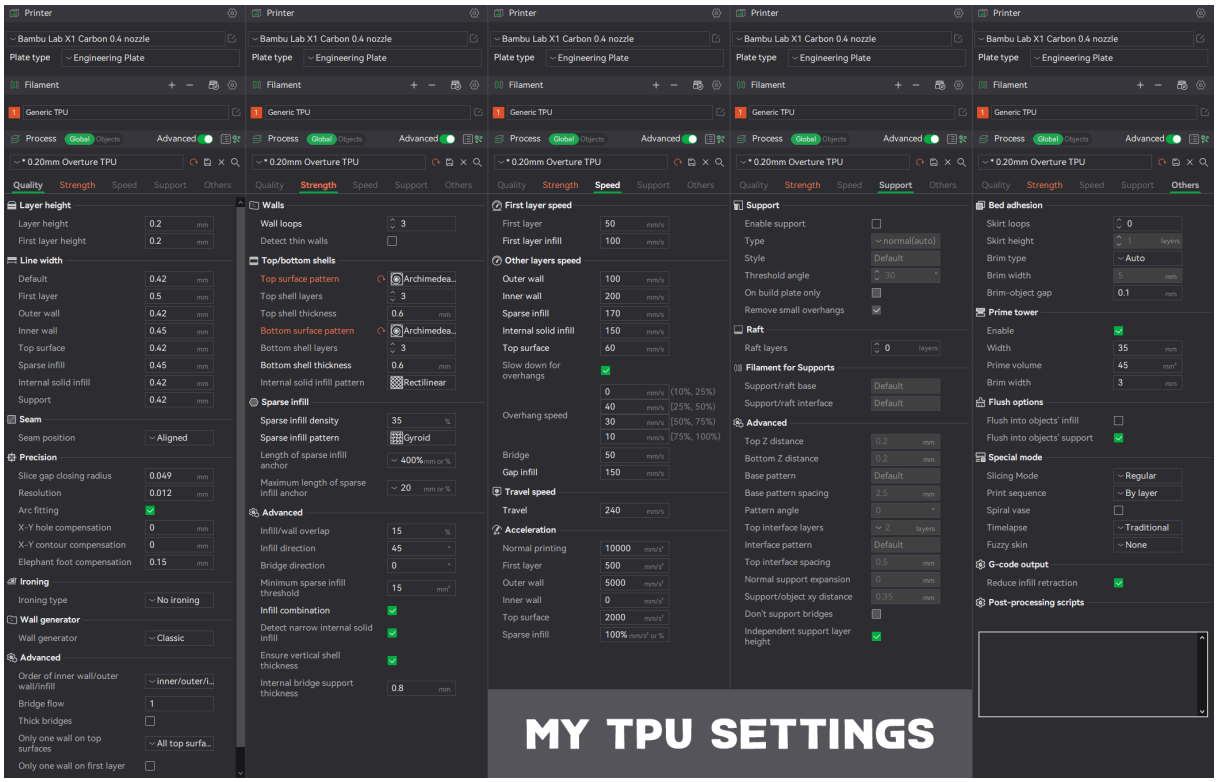
Instructions for the Bathroom Sink Drain Stopper (Experimental)



1. Insert 2 into 1. Try pushing the teeth of 2 together and then coming in at a top down angle into 1. Then slide the teeth down and when you reach the circle, lift the center of 2 to lock in place.
2. Slide 3 into 1 (on top of 2) while pushing down on 2's circle tab which will lock into 3's circle.
3. Slide in 4 on the opposite side.
4. Pinch 5 to get it around 6. Pull down one side of the ring (5) until it pops into place. This is best done on the wide sides of 6. Then do the same on the opposite side to fully pop in the ring (5).
5. Slide 6 sideways into the notch at the top of 2.

My TPU Settings

I know this may help some people so I'm including the slicer settings I use for TPU.


Printer
Bambu Lab X1 Carbon 0.4 nozzle
Plate type
Engineering Plate
Filament
Generic TPU
Process
Global
Objects
Advanced
* 0.20mm Overture TPU
Quality
Strength
Speed
Support
Others
Layer height
Layer height 0.2 mm
First layer height 0.2 mm
Line width
Default 0.42 mm
First layer 0.5 mm
Outer wall 0.42 mm
Inner wall 0.45 mm
Top surface 0.42 mm
Sparse infill 0.45 mm
Internal solid infill 0.42 mm
Support 0.42 mm
Seam
Seam position Aligned
Precision
Slice gap closing radius 0.049 mm
Resolution 0.012 mm
Arc fitting
X-Y hole compensation 0 mm
X-Y contour compensation 0 mm
Elephant foot compensation 0.15 mm
Ironing
Ironing type No ironing
Wall generator
Wall generator Classic
Advanced
Order of inner wall/outer wall/infill inner/outer/i...
Bridge flow 1
Thick bridges
Only one wall on top surfaces All top surfa...
Only one wall on first layer
Walls
Wall loops 3
Detect thin walls
Top/bottom shells
Top surface pattern Archimedea...
Top shell layers 3
Top shell thickness 0.6 mm
Bottom surface pattern Archimedea...
Bottom shell layers 3
Bottom shell thickness 0.6 mm
Internal solid infill pattern Rectilinear
Sparse infill
Sparse infill density 35 %
Sparse infill pattern Gyroid
Length of sparse infill anchor 400% mm or %
Maximum length of sparse infill anchor 20 mm or %
Advanced
Infill/wall overlap 15 %
Infill direction 45 °
Bridge direction 0 °
Minimum sparse infill threshold 15 mm²
Infill combination
Detect narrow internal solid infill
Ensure vertical shell thickness
Internal bridge support thickness 0.8 mm
First layer speed
First layer 50 mm/s
First layer infill 100 mm/s
Other layers speed
Outer wall 100 mm/s
Inner wall 200 mm/s
Sparse infill 170 mm/s
Internal solid infill 150 mm/s
Top surface 60 mm/s
Slow down for overhangs
0 mm/s (10%, 25%)
40 mm/s [25%, 50%)
30 mm/s [50%, 75%)
10 mm/s [75%, 100%)
Overhang speed
Bridge 50 mm/s
Gap infill 150 mm/s
Travel speed
Travel 240 mm/s
Acceleration
Normal printing 10000 mm/s²
First layer 500 mm/s²
Outer wall 5000 mm/s²
Inner wall 0 mm/s²
Top surface 2000 mm/s²
Sparse infill 100% mm/s² or %
Support
Enable support
Type normal(auto)
Style Default
Threshold angle 30 °
On build plate only
Remove small overhangs
Raft
Raft layers 0 layers
Filament for Supports
Support/raft base Default
Support/raft interface Default
Advanced
Top Z distance 0.2 mm
Bottom Z distance 0.2 mm
Base pattern Default
Base pattern spacing 2.5 mm
Pattern angle 0 °
Top interface layers 2 layers
Interface pattern Default
Top interface spacing 0.5 mm
Normal support expansion 0 mm
Support/object xy distance 0.35 mm
Don't support bridges
Independent support layer height
Bed adhesion
Skirt loops 0
Skirt height 1 layers
Brim type Auto
Brim width 5 mm
Brim-object gap 0.1 mm
Prime tower
Enable
Width 35 mm
Prime volume 45 mm³
Brim width 3 mm
Flush options
Flush into objects' infill
Flush into objects' support
Special mode
Slicing Mode Regular
Print sequence By layer
Spiral vase
Timelapse Traditional
Fuzzy skin None
G-code output
Reduce infill retraction
Post-processing scripts
MY TPU SETTINGS

Model files

Drain Strainers

4 files



kitchen_sink_strainer.stl



kitchen_sink_strainer_voronoi.stl



utility_sink_strainer.stl



bathroom_sink_strainer.stl

Drain Pads

3 files



drain_pad_large.stl

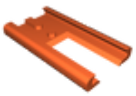


drain_pad_medium.stl



drain_pad_small.stl

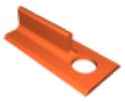
Bathroom Sink Drain Stopper (Experimental) 7 files



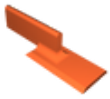
sink_stopper_1_body.stl



sink_stopper_2_shaft.stl



sink_stopper_3_fin.stl



sink_stopper_4_fin.stl



sink_stopper_5_ring.stl



sink_stopper_6_top.stl



sink_stopper_parts.3mf

License

This work is licensed under a Standard Digital File Licence

Digital files have a strict non-commercial, personal use only license.

You shall not share, sub-license, sell, rent, host, transfer, or distribute in any way the digital file or 3D printed versions of this object, nor any other derivative work of this object in its digital or physical format. (including remixes of this object)

You can not host this files on other digital platforms, web stores or cloud repositories.
The objects may not be used without permission in any way whatsoever in which you charge money, collect fees.

✖ | No sharing or redistributing in any way of the 3D files or derivatives
✖ | No remixing
✖ | Non-commercial Use (only for personal use)
✖ | Meets Open Definition