

Hollow 3D-printed fishing lures

3DP-042 / REV A / 2026.09.01

A hollow lure lets you tune buoyancy, ballast and action. The useful design variables are body volume, hardware mass and where that mass sits. These are prototype geometry and print starting points, not a recovered lure STL or a confirmed successful profile.

STATUS	Recovered/Partial
CLASSIFICATION	3DP
MATERIAL	3D PRINT / MAKER
DISPOSITION	PUBLIC / RECOVERED/PARTIAL
CATEGORY	3D Printing
RECORD TYPE	project

TECHNICAL NOTES

A hollow lure lets you tune buoyancy, ballast and action. The useful design variables are body volume, hardware mass and where that mass sits.

GOAL

Run the first test described in this guide and record the result for hollow 3d-printed fishing lures.

SOURCE STATE

New reference guidance; not a recovered test result

PREPARATION / NOTES

These are prototype geometry and print starting points, not a recovered lure STL or a confirmed successful profile.

EQUIPMENT

- FDM printer / slicer
- Slicer project
- Calipers or inspection method

MATERIALS

- Material requires confirmation
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METHOD / STEPS

1. Sketch the intended action: floating, suspending or sinking. Weigh hooks, rings, ballast and the printed body rather than estimating from appearance.
 2. Design two accessible shells or a body with a sealable ballast port. Use a mechanically continuous hook/line load path where feasible; do not rely on a tiny printed eye for an unknown fish load.
 3. As a prototype, use 0.4 mm nozzle, 0.20 mm layers and 3-4 walls in a suitable material. Design the cavity in CAD and inspect the slicer preview so "0% infill" does not leave unsupported internal roofs.
 4. Assemble and seal using 3DP-043. Test in a clear container with the final hardware, then make a shallow-water retrieve test and adjust one ballast variable at a time.
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THINGS TO WATCH FOR

Use hook covers while handling. More ballast can ruin action; leaks can masquerade as a balance problem. Printed shells and adhesives need testing before any claimed load rating.

FIRST TEST / WHAT TO RECORD

Record floating attitude, sink rate, retrieve action and dry weight before/after soaking.

RESULT / WHERE THIS STANDS

Record floating attitude, sink rate, retrieve action and dry weight before/after soaking.

TROUBLESHOOTING

- Use hook covers while handling. More ballast can ruin action; leaks can masquerade as a balance problem. Printed shells and adhesives need testing before any claimed load rating.
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SPECIFICATION

PRINTER	FDM printer / slicer
MATERIAL	Material requires confirmation
FOCUS	Buoyancy, sealing, ballast, and retrieval
VALIDATION	Small test print before release

DEVELOPMENT HISTORY

2026.09.01 / Rev A

Imported as an independent manifest record; public copy keeps uncertainty visible.

REFERENCE NOTES

Official [help.prusa3d.com](https://help.prusa3d.com/article/petg_2059) reference (https://help.prusa3d.com/article/petg_2059).

HOW-TO SOURCES

Official help.prusa3d.com reference

https://help.prusa3d.com/article/petg_2059

RELEASED MATERIAL / SOURCE LINKS

3dp-042-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/3dp-042-public-summary.txt>

RETURN TO THE LIVING RECORD

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This PDF preserves the public notes at this revision. Visit the record for updates and attached images.

<https://u225x.com/record/3DP-042>
