

Aquarium-parts project

3DP-049 / REV A / 2026.09.01

Aquarium hardware must suit prolonged immersion and avoid harming fish. Design for cleaning, smooth edges and the consequence of breakage.

STATUS	Starting Point
CLASSIFICATION	3DP
MATERIAL	3D PRINT / MAKER
DISPOSITION	PUBLIC / STARTING POINT
CATEGORY	3D Printing
RECORD TYPE	project

GOAL

Run the first test described in this guide and record the result for aquarium-parts project.

SOURCE STATE

Design reference; no material is certified aquarium-safe by this article

EQUIPMENT

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

MATERIALS

- Material requires confirmation

METHOD / STEPS

1. Define whether the part is a dry external bracket or immersed hardware. Prefer external placement when it meets the need.
2. For immersed use, obtain composition and water-contact suitability information for filament, pigments, coating and metal hardware. Avoid unknown additives, exposed magnets and metal-filled materials.
3. Design broad radii, removable cleaning access and openings that cannot trap fish. Print a separate fit sample before the complete part.

4. Test the cured, cleaned item in a separate container before installation; monitor appearance and water parameters. Keep critical aeration or filtration independent of an unproven printed bracket.

THINGS TO WATCH FOR

PLA or PETG labels alone do not certify aquarium safety. Printed layers can collect debris. An uneventful soak cannot prove a material will not leach contaminants over time.

FIRST TEST / WHAT TO RECORD

Confirm cleanability, secure retention and absence of sharp edges; keep formulation and maintenance notes.

RESULT / WHERE THIS STANDS

Confirm cleanability, secure retention and absence of sharp edges; keep formulation and maintenance notes.

TROUBLESHOOTING

- PLA or PETG labels alone do not certify aquarium safety. Printed layers can collect debris. An uneventful soak cannot prove a material will not leach contaminants over time.

SPECIFICATION

PRINTER	FDM printer / slicer
MATERIAL	Material requires confirmation
FOCUS	First layer, dimensions, surface, and function
VALIDATION	Small test print before release

DEVELOPMENT HISTORY

2026.09.01 / Rev A

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

RELEASED MATERIAL / SOURCE LINKS

3dp-049-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/3dp-049-public-summary.txt>

RETURN TO THE LIVING RECORD

Aquarium-parts project

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

<https://u225x.com/record/3DP-049>