

Chip-clip project

3DP-047 / REV A / 2026.09.01

A printed clip needs spring travel without forcing a thin layer seam to carry all the flexing. Treat fit, grip and fatigue as separate tests.

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 chip-clip project.

SOURCE STATE

New reference guidance; not a recovered test result

EQUIPMENT

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

MATERIALS

- Material requires confirmation

METHOD / STEPS

1. Measure the folded bag thickness and choose a spring clip or a rigid sliding closure.
2. For a spring version, use generous bend radii and orient the curved arms so extrusion roads follow the flexing path where practical.
3. Start a PETG prototype at 0.20 mm layers, 3-4 walls and 15-25% infill with the material profile in 3DP-027. Check that the flexure is actually represented in slicer preview.

4. Test on an empty bag, cycle it repeatedly and inspect for whitening, cracking or permanent opening before normal use.

THINGS TO WATCH FOR

Thin rigid PLA hinges often fail with repeated bending. Layered plastic is harder to sanitize than a smooth commercial clip; keep it outside the food-contact area.

FIRST TEST / WHAT TO RECORD

The clip should close the intended bag without puncturing it and still recover after repeated opening.

RESULT / WHERE THIS STANDS

The clip should close the intended bag without puncturing it and still recover after repeated opening.

TROUBLESHOOTING

- Thin rigid PLA hinges often fail with repeated bending. Layered plastic is harder to sanitize than a smooth commercial clip; keep it outside the food-contact area.

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.

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

RELEASED MATERIAL / SOURCE LINKS

3dp-047-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/3dp-047-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-047>