



5 gallon water jug cap

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Summary

A flex cap that gives you a better grip for open/close for large 5 gallon jugs.



54.40 hrs



4 pcs



0.30 mm



0.40 mm



Flex



422 g



Prusa
MK3S/S+ &
MMU2S/3

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I bought a bunch of 5 gallon jugs to fill my inside cistern on my property, but the caps were too hard to get on and off. My hands just don't work like they used to, and trying to twist and pull those caps with the hole in the center for the upside dispenser things was just not working for me. So, off to the 3D printer.

These caps are working great. They are easy to get on and off because I made them wide enough to be able to get a good grip with your thumb.

They are NOT perfectly water tight. They are ABSOLUTELY splash proof. If you carry the jugs sideways, some of mine hold water, others dribble a

little bit. I don't know if it is a little piece of flex interfering, or maybe one jug is slightly different than another, or whatever. Either way, the little bit of water I lose on the floor is rarely a problem for me, but I think if they were a little thicker/taller and seated further down the neck of the jug they'd likely be perfect.

Obviously you want to make these from TPU, and you need to use a pretty open infill to give it flexibility. The “No Purge” gcode below was, I believe, the most successful, since I learned with TPU I have to stop the initial purge/ramming of the filament on my MK3S or it will fail every time. For TPU, I've learned to load to nozzle first, pull the screw on the tensioner, and self feed. Then I hold the tensioner with my fingernail to force the printer to think it has a filament or the filament sensor fails. I have to do that all the way up to bed leveling, then immediately after bed leveling right as it starts the purge line.

Made with TPU. Message me for the fusion 360 files.

Model files



5-gal-water-jug-cap-v2-x4.3mf



5-gal-water-jug-cap-v2.stl



5-gal-water-jug-cap-v2.3mf

Print files



5-gal-water-jug-cap-v2_03mm_flex_mk3smmu2s_3h50m.gcode

⊗ Flex ⊗ 0.40 mm ≡ 0.30 mm ⌚ 3.83 hrs ⚖ 32 g

🖨 Prusa MK3S/S+ & MMU2S/3



5-gal-water-jug-cap-v2-x4_03mm_flex_mk3smmu2s_15h18m .gcode

🌀 Flex 0.40 mm 0.30 mm ⌚ 15.31 hrs ⚖️ 130 g 📄 Prusa MK3S/S+ & MMU2S/3



5-gal-water-jug-cap-v2-x4_03mm_flex-no-purge_15h18m.gcode

🌀 Flex 0.40 mm 0.30 mm ⌚ 15.31 hrs ⚖️ 130 g

📄 Prusa MK3S/S+ & MMU2S/3



5-gal-water-jug-cap-v2-x4_03mm_flex_mk3smmu2s_19h57m .gcode

🌀 Flex 0.40 mm 0.30 mm ⌚ 19.95 hrs ⚖️ 130 g 📄 Prusa MK3S/S+ & MMU2S/3

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