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The goal of this project was to create a pocket big enough to fit my phone inside, that was as discreet as pockets in pants are but as durable (and waterproof) as phone cases that usually clip onto belts are.

To recreate the thin quality of a pocket I printed the sides separately and sew them together. I expected that printing with the Soft PLA would give the pocket flexibility, and although it is more flexible than regular PLA would be, it is still more rigid than a regular pocket. My idea with the zippers was that I would be able to close the phone inside the pocket and protect it from water (also my logic for using plastic – ABS and Soft PLA). However, the zipper did not turn out so well in that it begins to rip through the ABS when slid over the zipper strips.

The final outcome is not waterproof (because I sew the components together, and because the print quality resulted in gaps on one of the sides) and is cannot close when my phone is inside of it. However, the phone fits and the pocket fits discreetly inside my pants, and comfortably as well, for the most part. Other applications for my project that came up during critique were anti-theft and a substitute for leather (for vegans who want that leather look).