

The way the comb printed, the plastic didn't cling to the glass as it was printing, which resulted in a very thin print, especially in the handle. However, the teeth were fine, so I decided to use the print since that was the main functioning part of the comb.

Due to the thin handle, the comb was difficult to use on thick or curly hair. I tested it on several people's hair, and it worked best on thinner hair and shorter hair. This was due to the thin handle, but also to the roughness of the teeth. Even though the teeth printed cleanly, there were still strings of plastic that were hard to clean out between the teeth.

Even if the comb printed properly, I think it still wouldn't be as functional as a commercial comb because of the fill. Most store-bought combs are solid plastic which makes them stronger. The lighter fill of the 3D printed comb makes it less sturdy and I suspect it would break after a few months of use.

Since I have straighter hair, the sturdiness of the comb did not effect my use of it much. I could run it through shorter parts of my hair, like my bangs, fairly easily, though longer, more tangled sections were difficult to work through, due to the strings of plastic between the teeth.

If I were to modify the tool, I would make it a solid fill and make the teeth farther apart in order to make sure there was no excess plastic in between them.