



Parametric Zip Tie Head Replacement (openscad)

 **GoMM69v2**

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Summary

Stop wasting 90% of your zip tie length! NOW FULLY PARAMETRIC!

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Stop wasting 90% of your zip tie length!

NOW FULLY PARAMETRIC! (with openscad)

(note: if you are going to desing a head in the customizar add your own tolerances by modifying the width and height of the ziptie)

Once you printed the heads, insert your zip tie left over in the hole with no pawls, orienting the theeth outside of the L shape of the head, heat up the PLA with a lighter and press with pliers, let it cool off, and the join should be super strong.

Play around with the scaling in your slicer (or add extra width or height to the ziptie measures in the customizer) to have the best fit , it has to be the tightest tolerance possible to prevent slip on the teeth

Print settings:

(the thickness of the walls of the model are 0.4 increments to avoid printing infill or having empty spaces.)

(i sliced this model with cura, probably other slicers will have the same settings)

filament: regular PLA

nozzle:0.4

layer height: 0.2

line width:0.4

top/bottom layers: 3

wall line count: 2

temperature: 180oC

cooling: 90% (very tight tolerances (0.5mm) that's why is very high)

print speed: 20 mm/s (you probably can print it faster, I didn't tried faster speeds)

fill gaps between walls: ON

filter out tiny gaps: OFF

the last two are very important, otherwise the pawls will be hollow and weaker

ENJOY!

Model files



36mm-ziptiehead.stl



parametric-ziptie.scad

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