



COVID-19 Mask/ Respirator



Locofrodo

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Summary

Don't they know its the end of the world

INTRODUCING: The Mark II

New slimmer and lighter version available and therefore less weight on your pretty face! This one does not have a detachable cap but is useful if you're only planning on placing a cloth / slim filter etc between mask and grid as shown in the pictures. The mask therefore consists of 3 parts instead of 4. I used color change to still have a color difference in the stiff part. If you want to have full flexibility you should stick with the Mark I.

Warning: This design does not guarantee 100% protection from any sort of virus, bacteria or other harmful contaminants. This could only be used as a last resort, when proper protective masks are not available.

Anyway... I remixed the Mask from lafactoria3D to print with less flex material and therefore faster. Also slight changes to the cap (you can use the original cap and it will also fit as I did not change any of the sizes). I connected the two main parts with superglue and also sealed it from the inside. The flex material makes the mask sit tight. For now I cut a surgical mask (white color) into 6 rectangular parts. This allows for way more usage than one surgical mask on its own. In a next step I want to use HEPA vacuum cleaner bags, cut them to size and check how breathability is affected by the different material.

You can find details on usable materials (with sources) on: <https://smartairstilters.com/en/blog/best-materials-make-diy-face-mask-virus/>

Added Triglide and Mini Buckle. Original Buckle is from: <https://library.zortrax.com/project/zortrax-buckle/>

Elastic Strap from here: https://www.amazon.co.uk/gp/product/B014D9H8NU/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1

Original design by: <https://www.thingiverse.com/thing:4225667>

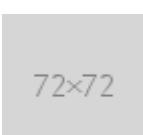
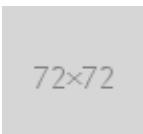
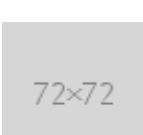
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[respirator](#) [mask](#) [filter](#) [covid19](#) [coronavirus](#) [corona](#)

0.2mm height, 0.4mm nozzle. All PLA, flexible part TPU.

Model Files (.stl, .3mf, .obj, .amf)

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 72x72	mark-ii-mask-stiff.stl updated 24. 3. 2020	719.9 KB	
 72x72	mark-ii-mask-flex.stl updated 24. 3. 2020	321.3 KB	
 72x72	grid.stl updated 24. 3. 2020	97.2 KB	
 72x72	triglide.stl updated 24. 3. 2020	21.0 KB	

72x72

buckle.stl

updated 24. 3. 2020

85.3 KB



72x72

mark-i-mask-stiff.stl

updated 24. 3. 2020

544.2 KB



72x72

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72x72

mark-i-mask-cap.stl

updated 24. 3. 2020

319.9 KB



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