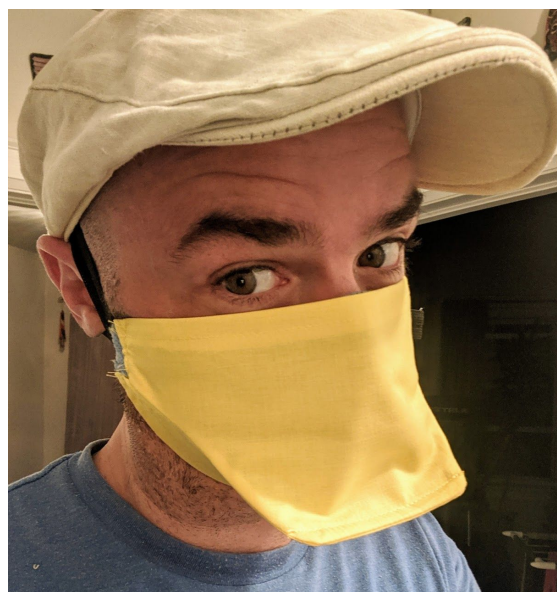


Duckbill Dev Mask Homebrew 0.4 / DD70



DD60 Prototype, June 7, 2020

Work In Progress Features: Duckbill Dev V0.4 / DD70

Filtration:

- Large filtration area for resisting moisture / easing breathing comfort (+/- 256 cm2)
- x2 Layers AdvanCheck, SMS Barrier Autoclave Wrap to resist moisture saturation.
- x1 Layer Filti Nano Fabric
- x1 Layer tight weave Kona Cotton Fabric exterior to reduce virus lifespan.
- Estimated current filtration in 70-80% of 0.3 micron particles (not including double surface area.)

Fit:

- 'Skin safe' silicone tape + nitrile tourniquet face seal on interior.
- Quick release snaps to ease safe donning / doffing / neck resting.
- Dual integrated ¾" elastic with overlap at corners.
- Heavy file binder nose piece.

Notes / Next Version:

- Add painted on nostrils to improve comedic potential.
- Separate cotton cover and straps for ease of cleaning / re-use.
- Include cotton layer on interior to reduce respiratory irritation.
- Consider salt layer
- Make goose and duckling versions.
- Add electrostatic layer.
- Improve nose seal bridge.

Base Pattern Here, Elaboration on Design by Dr. Chris Holmes

<https://www.instructables.com/id/Face-Mask-Duckbill-With-Filter/>

Inquiries:

devon@ostrom.ca Last Edit, June 9 2020

<https://tinyurl.com/devduckbill>