

PPE Face Shield Information Sheet

Prepared by Kitsap Covid-19 PPE Maker Team

<https://www.facebook.com/groups/818404345305725/>

March 29, 2020

Revised: April 1, 2020



Making

1) Face Shield Frame

- a) We have settled on a customized Prusa R3 design.
This is 3-hole design and can print in 2 hours.
- b) <https://www.facebook.com/groups/818404345305725/permalink/818565878622905/>
- c) We are printing on a variety of printers with speeds up to 150mm/s
- d) We primarily use PLA as it prints quickly. You can also do PETG or ABS.
 - i) All hospitals, clinics, pharmacies and urgent cares are accepting PLA. They DO NOT CARE!!
 - ii) They have the ability to clean and disinfect.

2) Screen / Visor

- a) We primarily use binder covers (see photo below), but other vinyl can be used. Test it out!
- b) We are getting these online from Amazon or local office supply stores (Staples, Office Depot)
- c) We like the Oversized version as it has rounded bottom edges.
- d) These are 11 x 8.5 (plus a ¼ for oversized)
- e) The only concern we have heard is they are a bit too long for stethoscope use.
 - i) We recommend users cut to a size they prefer.
 - ii) Most use as is.
 - iii) A standard 3-hole punch can be adjusted and used on the above model or just use a handheld.
 - iv) Make a template and test till you have it lined up
- f) The holes should be a little close together. This allows the user to stretch the screen a bit and make it fit tight.

3) Elastic

- a) We are using all types
 - i) 1-inch elastic purchased at Fabric stores or Walmart
 - ii) ¾ and even ½ work also. Narrow bands can be used and tied off to the frame.
- b) You can also use large rubber bands and tape the loop to the frame

4) Packaging

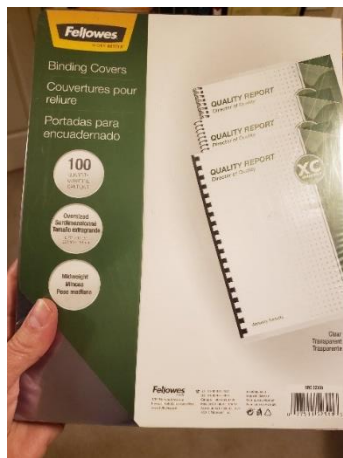
- a) We use 1-gallon Ziploc bags.
- b) You should wear gloves when packaging face masks.
- c) The shield does not fit and allow the bag to close, so we assemble the top frame and put the parts into the bag. Gently folding the screen over.
- d) Only place a single screen in each bag.

5) Labeling

- a) We either write the following or print labels
 - Face Shield – (IE: Prusa 3 Hole R3, Stratasys, ETC)
 - Material: (IE: PLA, PETG, ASA, ETC)
 - Made by: (Your initials)
 - !!!Clean /Disinfect before use!!!



1/4" to 1" Elastic



Fellowes Binding Covers



Hole Punch

6) Packets of Replacement screens

- a) We also provide each site with packets of pre-punched Replacement screens
- b) Usually 5 per packet in gallon bags
- c) Labeled like above to identify what frame they fit (Stratasys and Prusa designs use simple 3-hole punch).

We set up a regional Facebook group. Please like: www.facebook.com/groups/818404345305725/

and get the word out via social media, other Local FB groups, printer groups, and news media.

We use the following google docs as templates to collect who needs and has had supplies delivered

- Template – Covid PPE Maker – Group Contacts
 - <https://docs.google.com/spreadsheets/d/1IM2V8TeEu3eUpngcDIufjOKLhmg3frbfAUMSY8fdPzY/edit?usp=sharing>
- Template – Covid Face Shields – Demand-Delivered
 - https://docs.google.com/spreadsheets/d/1L9AgLHbI329nQRCJeLHeOp48_ifXgBt6le1uehzajZE/edit?usp=sharing

Donations

Donations are accepted on our GoFundMe campaign:

<https://tinyurl.com/yx8xwe25>

Contact

To make requests for PPE, please email us at:

Kitsapcovid19ppemakerteam@gmail.com

