

3D FACE SHIELD

FABRICATION + ASSEMBLY INSTRUCTIONS



BILL OF MATERIALS

MATERIALS

Foam Tape 3/4in wide x 1/2in thick - cut to 9.5in long

.005in thick poly sheet - cut to 12in x 9in rectangles

Material: PET-G, Acetate, or other clear impermeable material

Elastic Band - 1/2in wide - cut to 31in long

PLA Filament for 3D Printer

Super Glue

Rubbing Alcohol and other disinfectants

Polybags

Tape

TOOLS

3D Printer

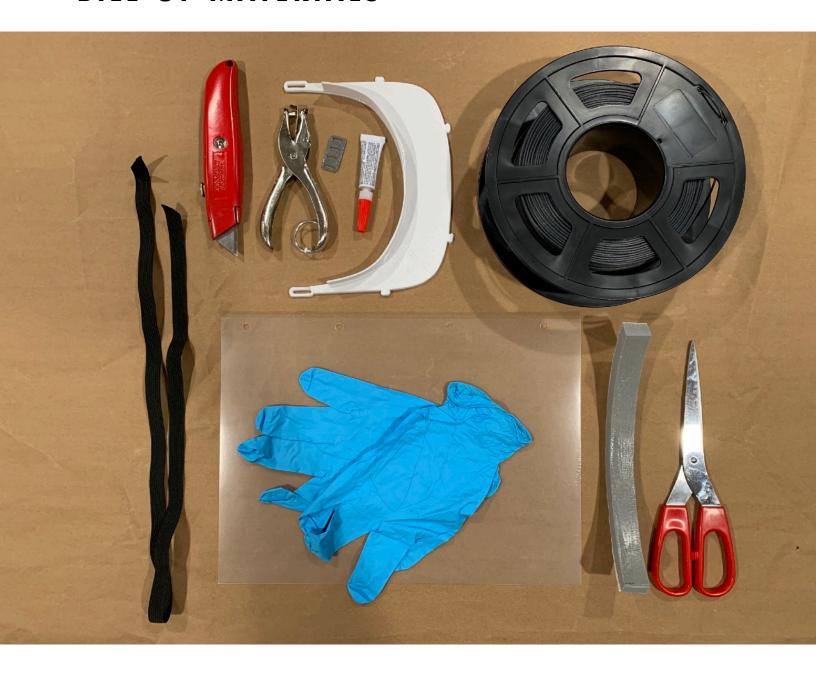
.25in hole punch

Razor blade or scissors

Vinyl Gloves

Face Mask

BILL OF MATERIALS



All materials, parts, and tools needed to assemble the 3D face shield.

ASSEMBLY INSTRUCTIONS

STEP 1:

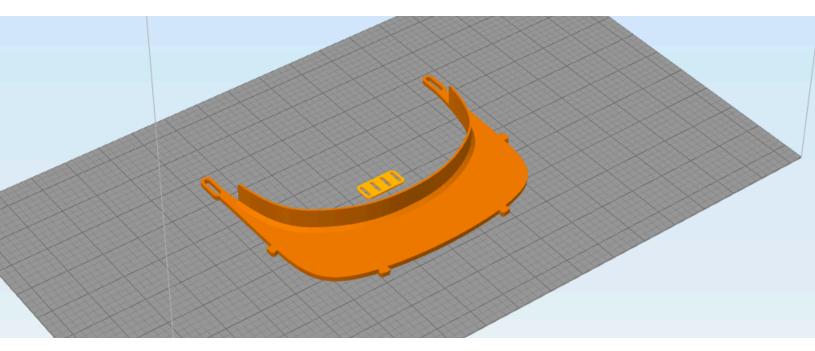
3D Print both the face-shield.stl and strap-lock.stl. Orient both 3D models to print flat on the build platform. We recommend printing both models with as large a layer height as possible to expedite the print time.

SUGGESTED PRINT PARAMETERS:

Layer Height: 0.3mm

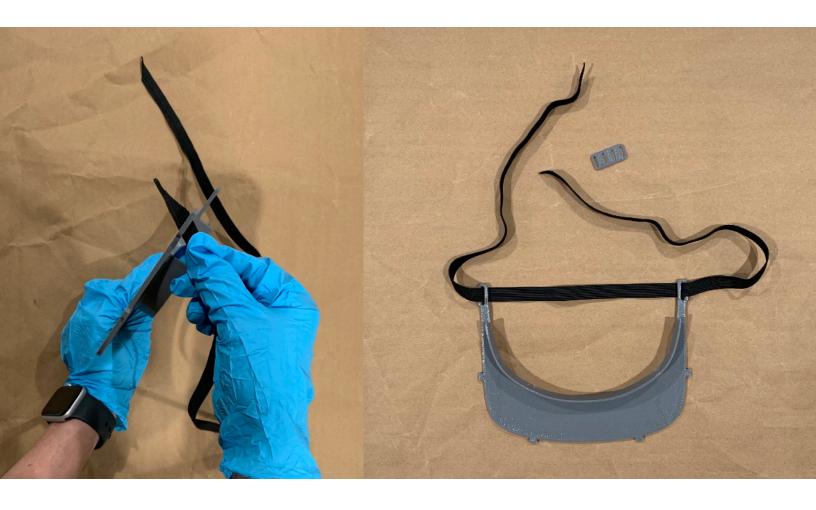
Infill: 10% Perimeters: 2

Bottom Solid Layers: 2 Top Solid Layers: 2



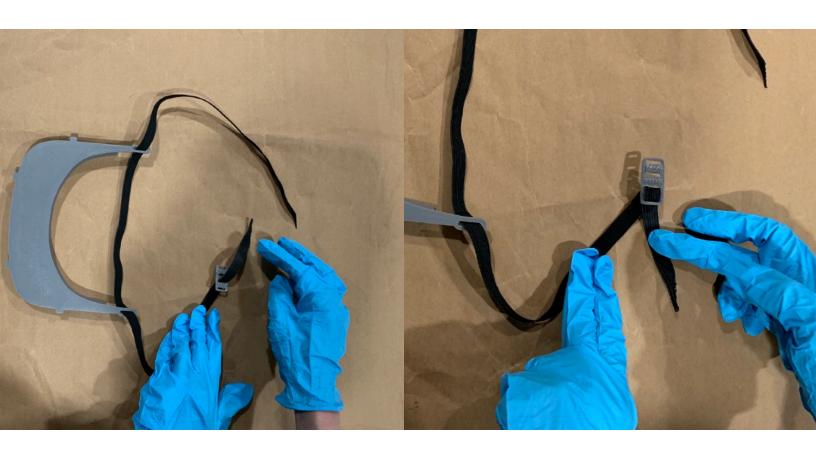
3D Models oriented flat side down on build plate in slicing software

STEP 2:Thread the elastic band through outside loops of 3D printed visor.



STEP 3:

There are four holes in the strap lock. Thread the elastic up through the third hole and down through the fourth. Thread the other end of the elastic of through the second hole and down through the first.



STEP 4:

Put a thin strip of super glue along the inside visor panel. Attach the sticky side of the foam to the visor. Put firm pressure for ten seconds on the foam so the glue can fully adhere to the visor.



STEP 5:

Align the poly sheet to the edge of the hole punch template. Make four holes using the template for accurate placement.



STEP 6:

Place the unassembled poly sheet and visor into a clean poly bag and seal. Photo below is the fully assembled 3D face shield.



Release, Waiver of Liability, Defense, Indemnification and Hold Harmless Agreement

You acknowledge that you understand that Isaac Budmen Industries LLC ("Budmen") is acting as a good samaritan and an independent volunteer providing dissemination of a 3D design for the manufacture of face shields. We do not certify the design or components operate properly or satisfy any regulatory requirements. This Release, Waiver of Liability, Defense, Indemnification and Hold Harmless Agreement ("Agreement") is meant to reflect the fact that Budmen offers the design as an experimental device, without warranty of any kind. The person signing below ("You") is either the individual recipient of the design if the individual recipient is an adult under the laws of the relevant jurisdiction or the parent or legal guardian of the child if the individual recipient is a child under the laws of the relevant jurisdiction.

You agree that the design provided to You by Budmen or by any individual associated with Budmen is provided "AS IS" and without representations or warranties of any kind, express or implied, and is intended to be a gift. By accepting the design, you further acknowledge that such design has not been evaluated or approved by any regulatory authority.

You understand that the design furnished by Budmen is meant to benefit society, and is not intended, and shall not be used, for commercial use. If You are an adult under the laws of the relevant jurisdiction and are the individual recipient, you acknowledge that You understand the potential risks of the use of the design and expressly assume such risks. If the individual recipient is a child under the laws of the relevant jurisdiction, You represent that You are the parent or legal guardian of the child and that You understand the potential risks of the use of the design and expressly assume such risks on behalf of the individual recipient.

Furthermore, You (either for yourself or your child) release and forever discharge Budmen from any and all liability for acts or omissions—including negligent acts or omissions—causing damage, loss, injury, or death to the individual recipient or others from the use of the design. You agree to defend, indemnify and hold Budmen harmless from any and all liability or loss—including liability for negligence—arising in conjunction with or resulting from the individual recipient's use of the design (including all attorney's fees and expenses incurred by Budmen).

You further understand and agree that Budmen and any individual associated with Budmen shall not be liable for any injuries or damages, including any consequential, incidental, indirect, punitive or special damages, resulting from or arising out of the use of the design provided by Budmen or any individual associated with Budmen.

Any information provided by Budmen and any individual associated with Budmen is not intended to be relied upon to protect from, diagnose or treat a health problem or disease, and Budmen makes no claims regarding the design or the components. You should consider consultation with a qualified health care provider prior to providing face shields manufactured pursuant to the design. Any statements made by Budmen are for informational purposes only and are not meant to replace the services or recommendations of a physician or other qualified health care practitioner.

You acknowledge that this Agreement is governed by the laws of the State of New York (without reference to its conflict of law provisions) and the parties intend that this Agreement be interpreted as broadly and inclusively as permitted by law. If any portion of this Agreement is found to be invalid for any reason, the remainder of the Agreement shall continue to remain in full force and effect and shall continue to be binding.

By accessing the design, You acknowledge that You have carefully read the foregoing provisions, understand their contents, and agree with and to each and every provision herein.