

# Better Block COVID-19 Face Shield

## CNC Router Settings:

.125" O flute upcut bit

1 pass

18,000 RPM at 70 IPM

OR

.125" downcut bit

1 pass

22,000 RPM at 85 IPM

Use above settings as a starting point for your machine.

Use .25" polycarbonate for the headband. File is set for a 4'x8' sheet.

Place tabs on the outside of the headband or they will cause irritation to the wearer.

1 sheet will cut 120 headbands.

## Materials:

1 9.5" x 9.5" square of .015 polygal

1 CNC head band (see above and Wiki cut file)

1 4" length of backer rod

1 large, elastic loop or hair tie

Standard 3-hole punch

Exacto knife

Scissors

## Assembly Instructions:

1) To create the forehead cushion: Using the Exacto knife, cut half-way through the length of the 4" length of backer rod. Press this around the piece of plastic that rests on the forehead.

2) To create the shield: Using the 3-hole punch, center and press out 3 holes in the square sheet of polygal. Remove any plastic film on the polygal (typically on both sides). Press the 3 bumps on the head band through the 3 holes on the face shield. The last one should be slightly difficult to put on. Using the scissors, round the bottom two corners of the mask.

3) Loop the elastic around the two back hooks.

4) Wear gloves, wipe down all materials with disinfectant, and package securely.

5) Save the world! Send your improvements, tips, and feedback to [krista@betterblock.org](mailto:krista@betterblock.org).

