

MakerMask: Cover



Materials and Tools

- Pattern (see final page)
- Clean non-woven polypropylene (50 – 90 gsm; e.g. shopping bag)
- Bias tape or cloth for straps
- Sewing machine
- Thread
- Scissors, pins, etc.

Instructions

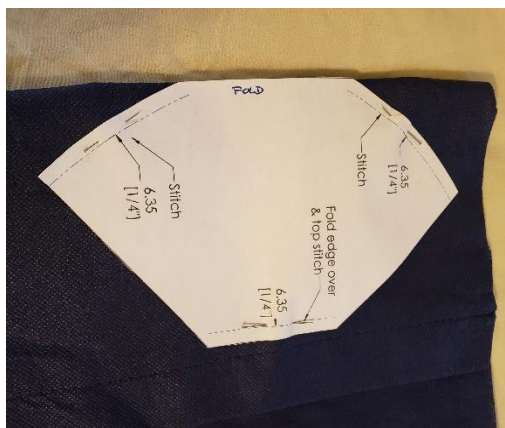
Step 1: Print and prepare the pattern

Print out the mask pattern on Letter-sized (8.5" x 11") paper. Verify that the measurements on the reference square are accurate.

Cut the pattern out.

Step 2: Cutting

Fold the fabric in half. Place the pattern on the folded edge where indicated. Cut mask pattern out of the fabric.



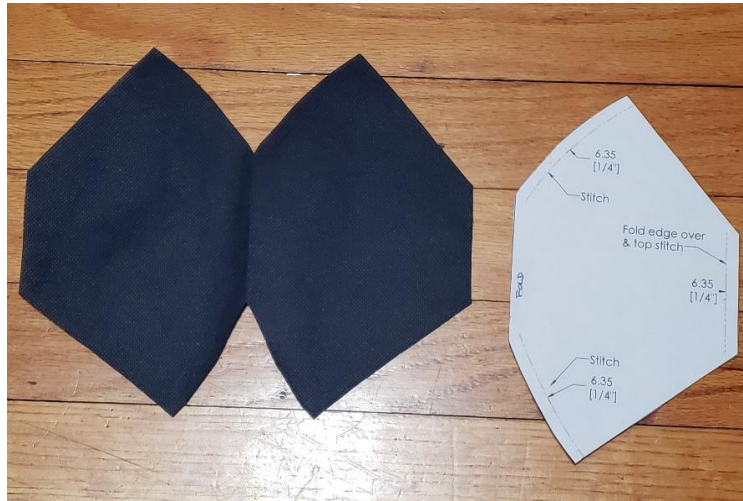
These instructions do not guarantee protection against transmission of any diseases. Commercially available masks meet regulatory guidelines, but homemade masks may not. Mask designs have not been FDA approved or cleared. Homemade masks are to be used at your own risk. Due to variability of materials and construction, the mask's safety or effectiveness is not proven and cannot be assumed. Information and instructions are not guaranteed to be complete and accurate. Manufacturers and distributors are responsible for ensuring compliance with all applicable laws and regulations. Desperate times call for desperate measures. Stay safe.

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Step 3: Sewing mask body

All stitching 1/8 inch from the edge.

- A. Top stitch the two sides together from the fold (top, center) to the top edge of mask
- B. Top stitch the two sides together from the fold (bottom, center) to the bottom edge of the mask.
- C. Open the mask; fold left edge over (C, left) and top stitch side to finish edge. Repeat for the right side (C, right).



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Step 4: Sewing the straps

Note: *These instructions are for double-folded fabric tape material creating the strap. If you don't have bias tape, you can make your own straps.*

Cut two 36" (91.4cm) long pieces of 1/2" (1.2cm) double-fold bias tape for the head ties. Unfold the bias tape and position the middle of the tape to the middle of the mask. Sew to the inside of the mask cover, 1/4 inch from edge. Fold the bias tape over to the outside of the mask and top stitch the full length of the tape to make finished straps. Repeat for the lower edge of the mask.

- Note: We stitched a "T" onto the top strap to indicate the top



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Additional Information

The MakerMask:Cover is made from a single layer of non-woven polypropylene and is designed to wear over other masks to prolong the use of commercially available N95 masks.

Disinfect / Sterilize before use

While autoclaving is ideal, home users can submerge the masks in boiling water for 10 minutes.

If you need assistance distributing your masks, we are partnering with the community to provide the best information as it becomes available. Check our website makermask.org for the latest information.

- Note: The FDA has released new guidance about labeling, manufacturing, and distributing face masks: [FDA Face Mask Letter \(April 24, 2020\)](https://www.fda.gov/medical-devices/surgical-and-medical-devices/fda-recommends-use-face-masks-protect-public-health).

Non-woven polypropylene (NWPP) Bags

Despite being called “non-woven”, NWPP is pressed with a cross pattern that gives it a woven appearance. A common source of NWPP is reusable shopping bags.

Look for reusable grocery bags with a cross-hatch pattern, no insulation or waterproofing. Make sure materials are breathable before use. NWPP bags can be safely laundered.

For additional information see: [The Big Four: Criteria for Community Mask Materials](#).



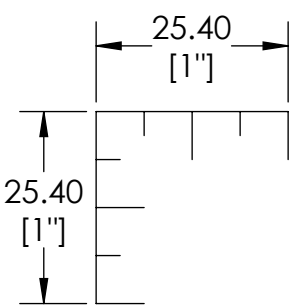
Fabric Ties

For securing the mask to the face, bias tape is a great option and commonly found at craft stores. Alternatively, ties may be fashioned from clean strips of NWPP, shoelaces, or other available material that is machine washable and long enough to tie around the head.

Elastic may cause severe reactions in individuals with a latex allergy, does not generally hold up as well to the heat of sterilization, and therefore should not be used.



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Maker Mask: Cover v1.2

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drawing by Burhan Qaddoumi

#makermask

Note: Version 1.2 is updated to provide a closer fit for use with cup-shaped masks/respirators. The size of mask is decreased relative to previous versions.

Print on A4 or Letter-sized paper fold at center line and cut out template

