

Sunshine Face Mask



After doing some research I came up with this mask that I call the Summer Mask. Since we do not know for quite some time if we have the virus I believe, once there will be enough masks available for our medical workers, that we will, like in Asia, have to wear masks in public. I have to wear masks in my art studio and usually I feel miserable after a few minutes. So I was surprised to read that single layer cotton fabric masks could be very effective, I have experimented with sewing single layer masks.

Enjoy, and stay safe

Petra Kaiser

Researchers at Cambridge University tested a wide range of household materials for homemade masks. To measure effectiveness, they shot Bacillus atrophaeus bacteria (0.93-1.25 microns) and Bacteriophage MS virus (0.023 microns in size) at different household materials.

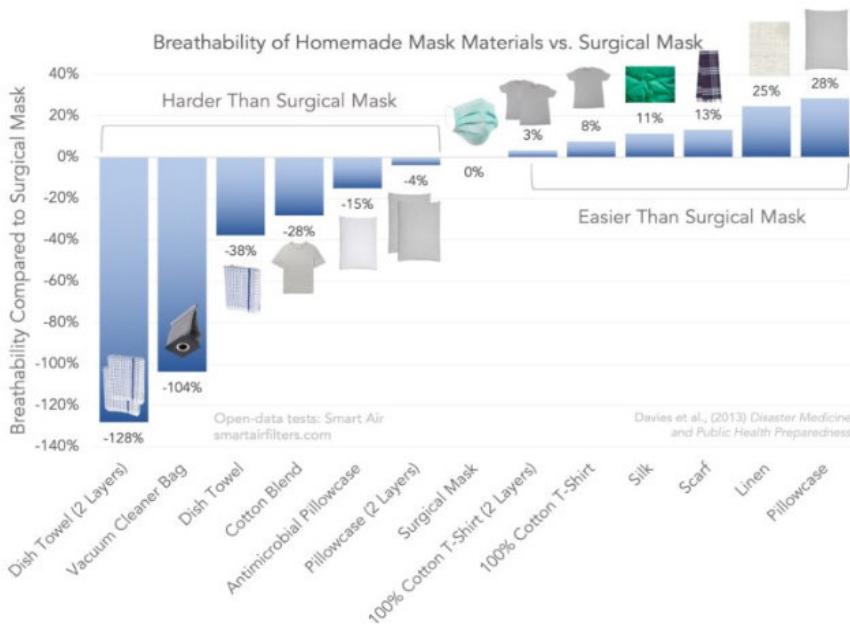
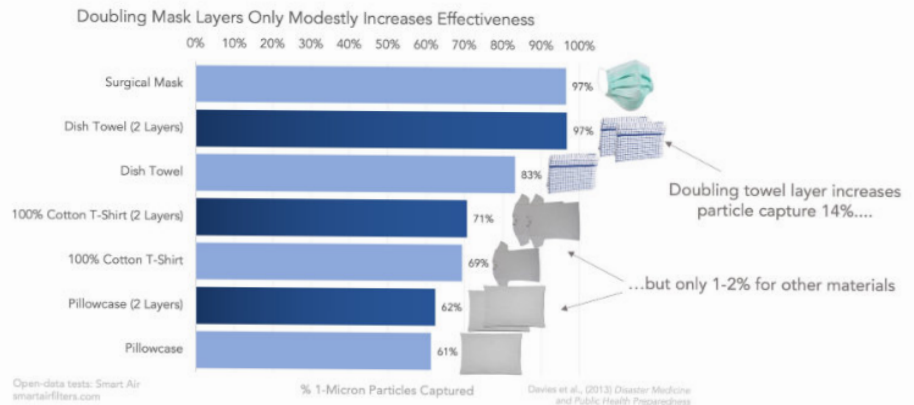
Making DIY Masks with Household Materials

Bottom line: Test data shows that the best choices for DIY masks are cotton t-shirts, pillowcases, or other cotton materials.

These materials filter out approximately 50% of 0.2 micron particles, similar in size to the Corona virus. They are also as easy to breathe through as surgical masks, which makes them more comfortable enough to wear for several hours.

Are Two-Layered DIY Masks More Effective?

If the problem is filtration effectiveness, would the masks work better if we doubled up with two layers of fabric? The scientists tested virus-size particles against double-layered versions of the dish towel, pillow case, and 100% cotton shirt fabrics.



Doubling the layers of material for your DIY mask gives a very small increase in filtration effectiveness, but makes the mask much more difficult to breathe through.

Source:

<https://smartairfilters.com/en/blog/best-materials-make-diy-face-mask-virus/?fbclid=IwAR1c42r2G4aXx1-NFM2iWewRyCnRhX2j4E57WKiJfNsaP1q1PkkxqZL43E9o>