

MEDNET

Model Exchange & Development of Nursing &
Engineering Technologies



Safety Goggles

MEDNET File: Goggle_Frames.stl
Stacked_Frames.stl

Description

Modeled after the "Safeview SV50A Eye-Shield" frames, this frame is a more accessible alternative that incorporates convenience and comfort through its flexure hinges and rounded temples while still maintaining the simplicity of the original SV50A design.

Features

This model of safety goggles uses "Safetyview SV50A Eye-Shield" visors to create an extremely safe design. The goggles are also completed with flexible hinges and rounded temples for additional comfort.

Development Information

Materials needed: PLA filament and Safetyview SV50A Eye-Shields

Finished dimensions: 5.51"x 6.87"x 0.22"

PLA filament \approx 0.011 of a roll

Safetyview SV50A Eye-Shield \approx one per model

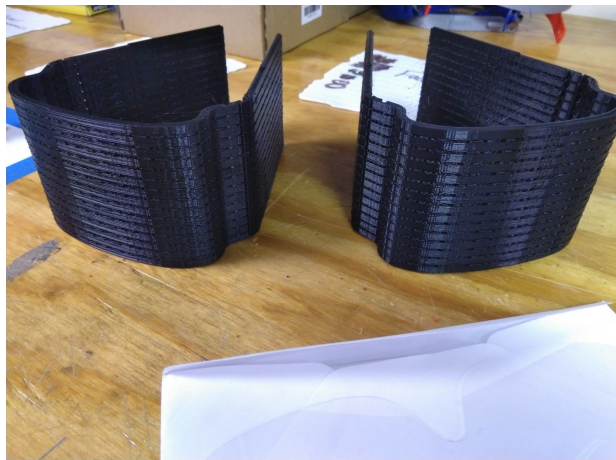
Production time \approx 1 hour and 10 minutes

Approximate materials cost: \$0.90

Instructions for Use

It is best to print this model with no supports. If your 3D printer has a heated bed no raft is needed for the design to print correctly. It is very important to know to print the rounded temples of the goggles pointing upward. To install the visors on the PLA model insert the visor (with rounded temples pointed down) through the two innermost holes. Once you have the visor in the innermost holes, fold the tips of the files to then insert the two outermost holes. Push the visor until the visor meets the front (forehead part) of the frames.

Filament: Hatchbox Filament 1.75mm - \$22.99/roll (prices vary per color)



Material Procurement Information

https://www.amazon.com/HATCHBOX-3D-Filament-Dimensional-Accuracy/dp/B00J0ECR5I/ref=sr_1_4?crid=2GJUX43SIM4TP&dchild=1&keywords=pla+filament+1.75mm&qid=1590077168&prefix=pla+filament%2Caps%2C178&sr=8-4

Safetyview SV50A Eye-Shield: Clear Disposable Shield Lenses 100 count - \$55.00

(We had all of our eye-shields donated, but here are some similar ones on amazon.)

https://www.amazon.com/Disposable-Medical-Dental-Shield-9210-100-R/dp/B08471F5WJ/ref=sr_1_4?dchild=1&keywords=SV50A+Eye-Shield&qid=1595949333&sr=8-4

*citations: Myler, M. Safety Goggles. MED-NET. Retrieved from uahmednet.org.