COVID-19 | 3D PRINTABLE FACE SHIELD FOR U.S. (4-1-2020)

Imagery

Necessary Materials and Tools

PET/PETG sheets 0.007''-0.015'' thick and 8''x13'' wide. (PC is an acceptable alternative)

PA12 or PA11 MJF face shield frames

Standard size 3-hole punch with 4.25'' hole spacing and ability to fit 13'' wide sheets

Printer	52XX	42XX
Material	PA12	PA11
Cleaning	Sand Blaster	
Post-Processing	None	

Recommended Printing Conditions

Print Orientation

The best part quality can be achieved by placing the parts in the horizontal orientation shown above

Printmode

Balanced print mode is recommended for both the 42xx and 52xx platforms

Job Setup

The recommended print job is a full or half build with a distance between parts of a least 3 mm. Please follow HP guidelines while monitoring the powder quality, adjusting irradiance settings, and selecting the refresh ratio according to packing density

Assembly Instructions

1. Align one of the side holes on the plastic film with one of the side pins on the frame. Keeping the hole looped over the side pin, loop the middle hole over the middle pin, then the other side hole over the remaining side pin. Embossed lettering should be readable. *You can bend the frame to ease fitting.*

2. Once the sheet is attached to the frame, bend the front of the frame to slot together the interior straps, keeping the bend in place. Pull the interior straps to ensure pins are properly slotted and locked into place.

3. Fit the face shield to the user's forehand, and secure the strap behind the head using adjustable slot locations. Readjust to ensure a snug fit.