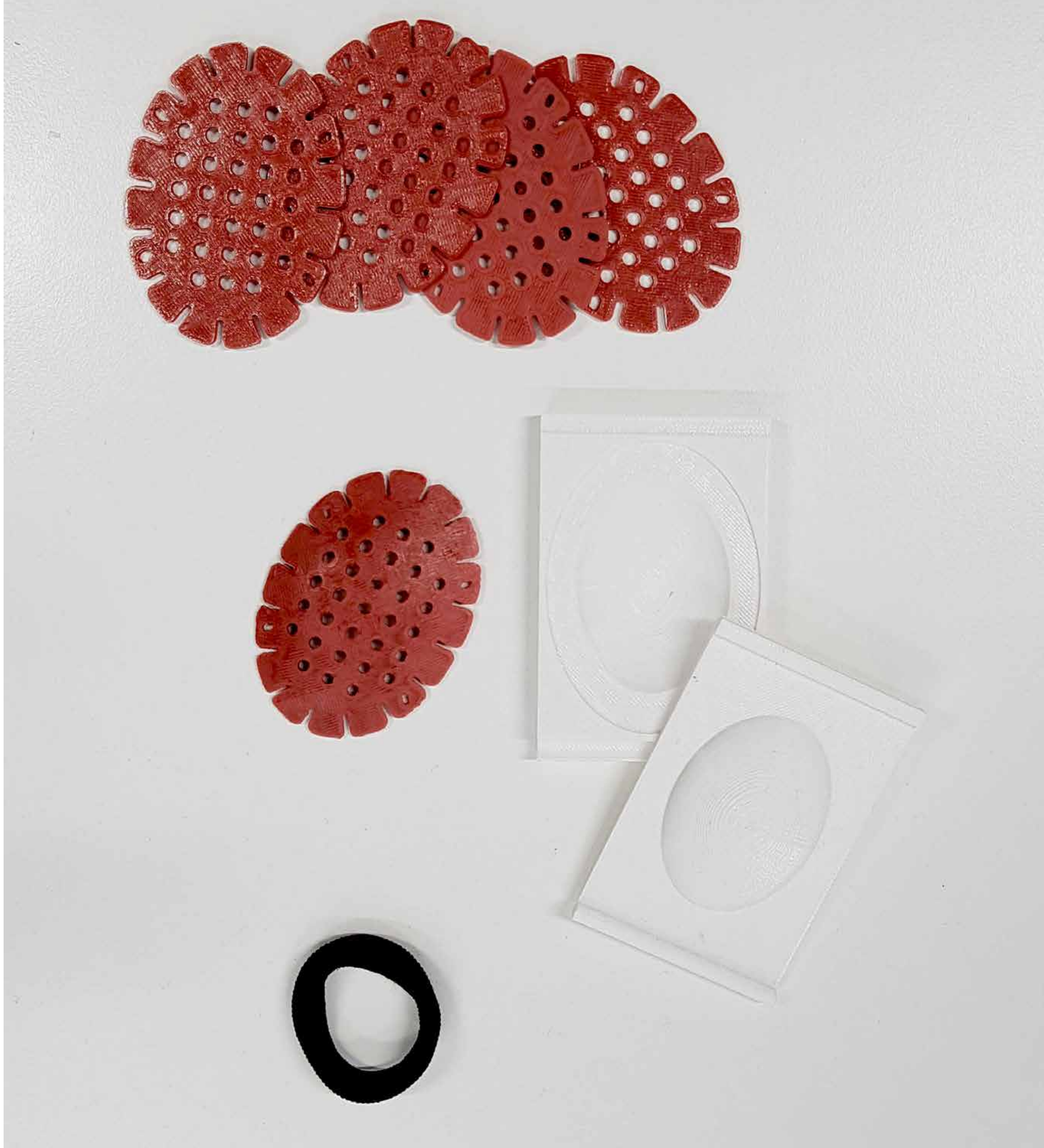




3D PRINTED EYESHIELDS

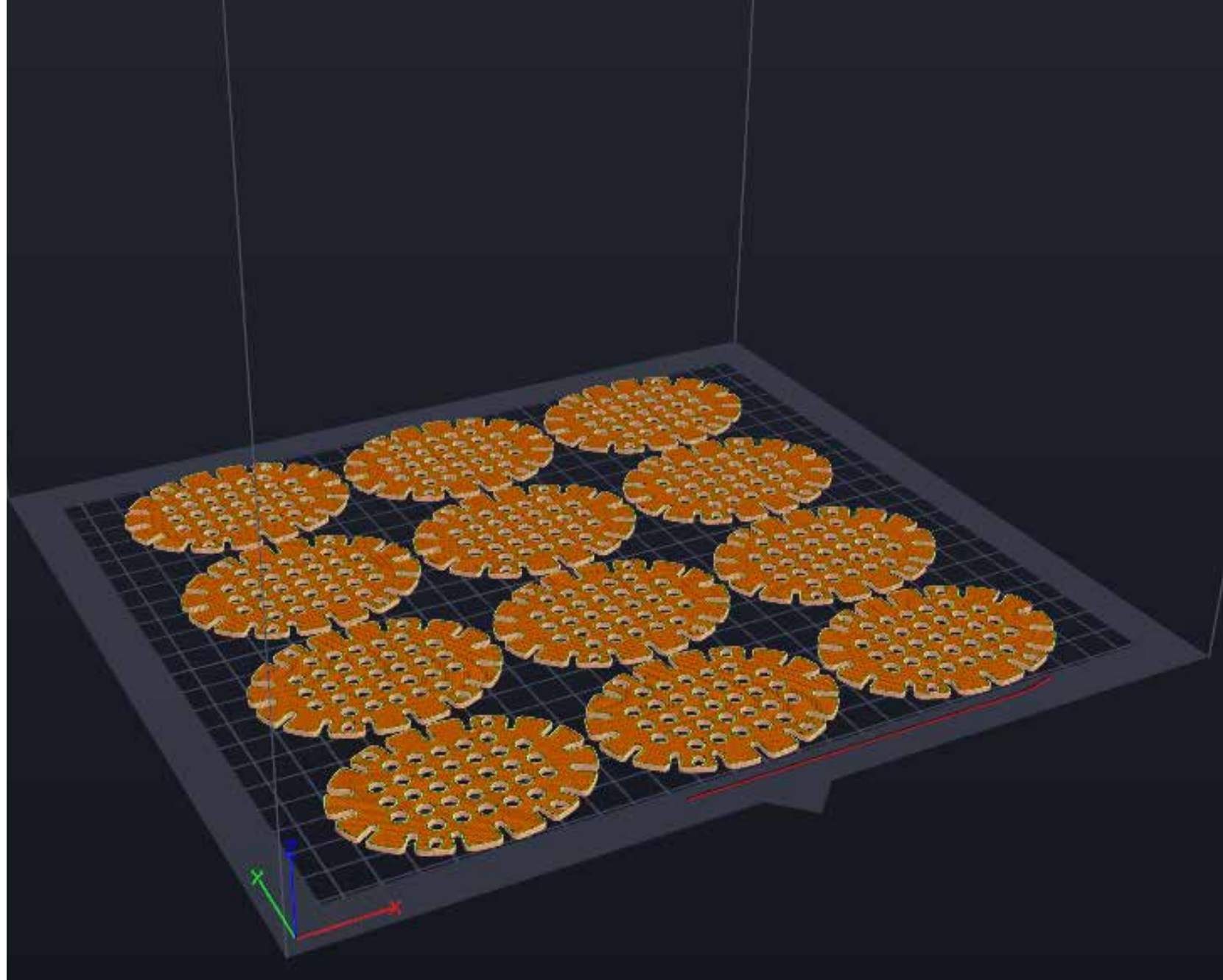
For protecting a wounded eye before professional medical intervention is possible.

design idea submitted by:
Олександр Мороз



NECESSARY MATERIALS

- 3D printer with heated build platform/heat gun/a hairdryer
- Elastic hair tie



Eyeshields are printed flat

3D PRINTING PARAMETERS - EYESHIELD for 12 pieces

Printing time: 6h 20min

Material: PLA

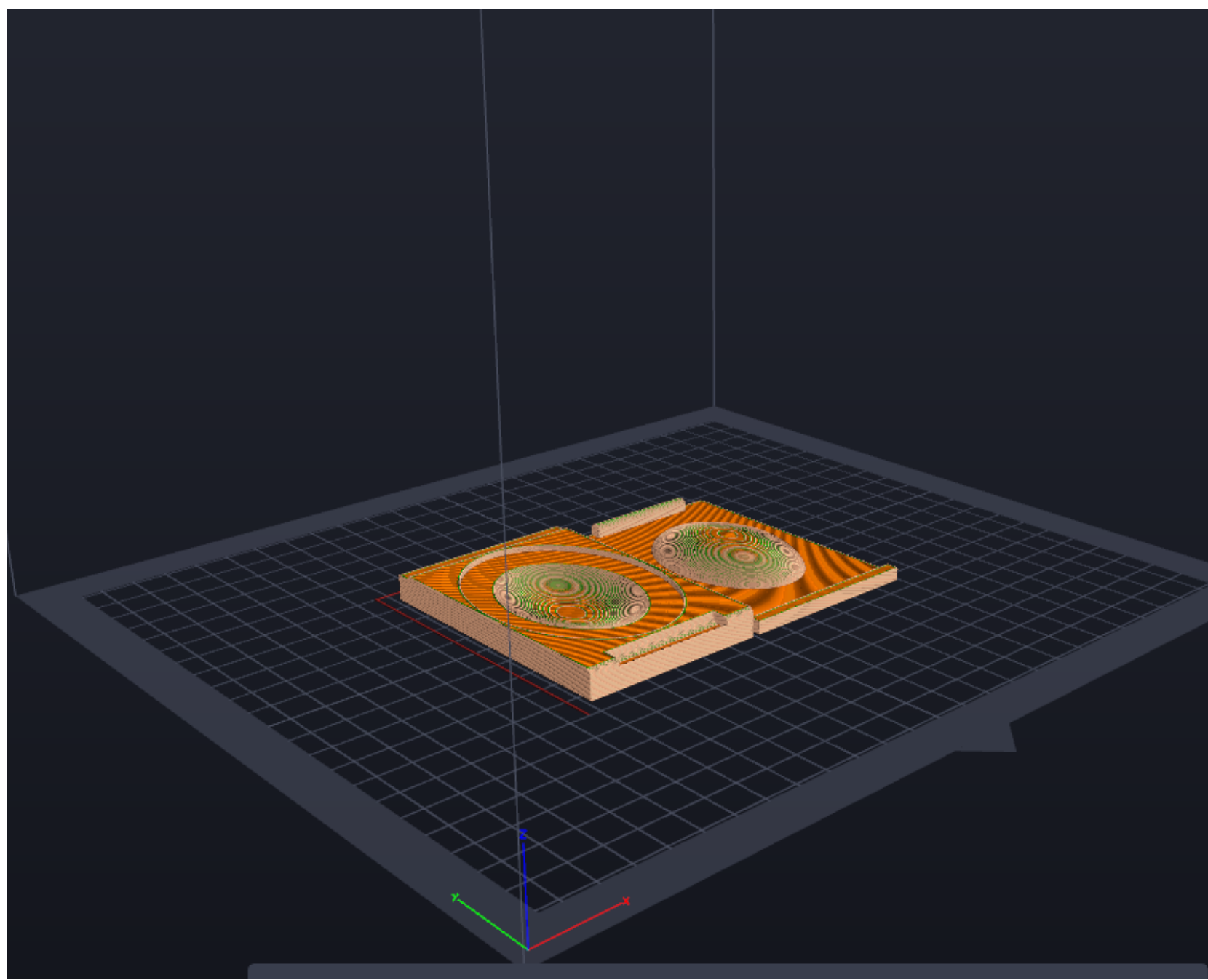
Amount of material: 21 m

Infill: 100%

Print speed: 80 mm/s, travel speed: 120 mm/s

Layer: 0,2 mm

Supports: No



3D PRINTING PARAMETERS - PREFORM

Printing time: 2h 20min

Material: PLA

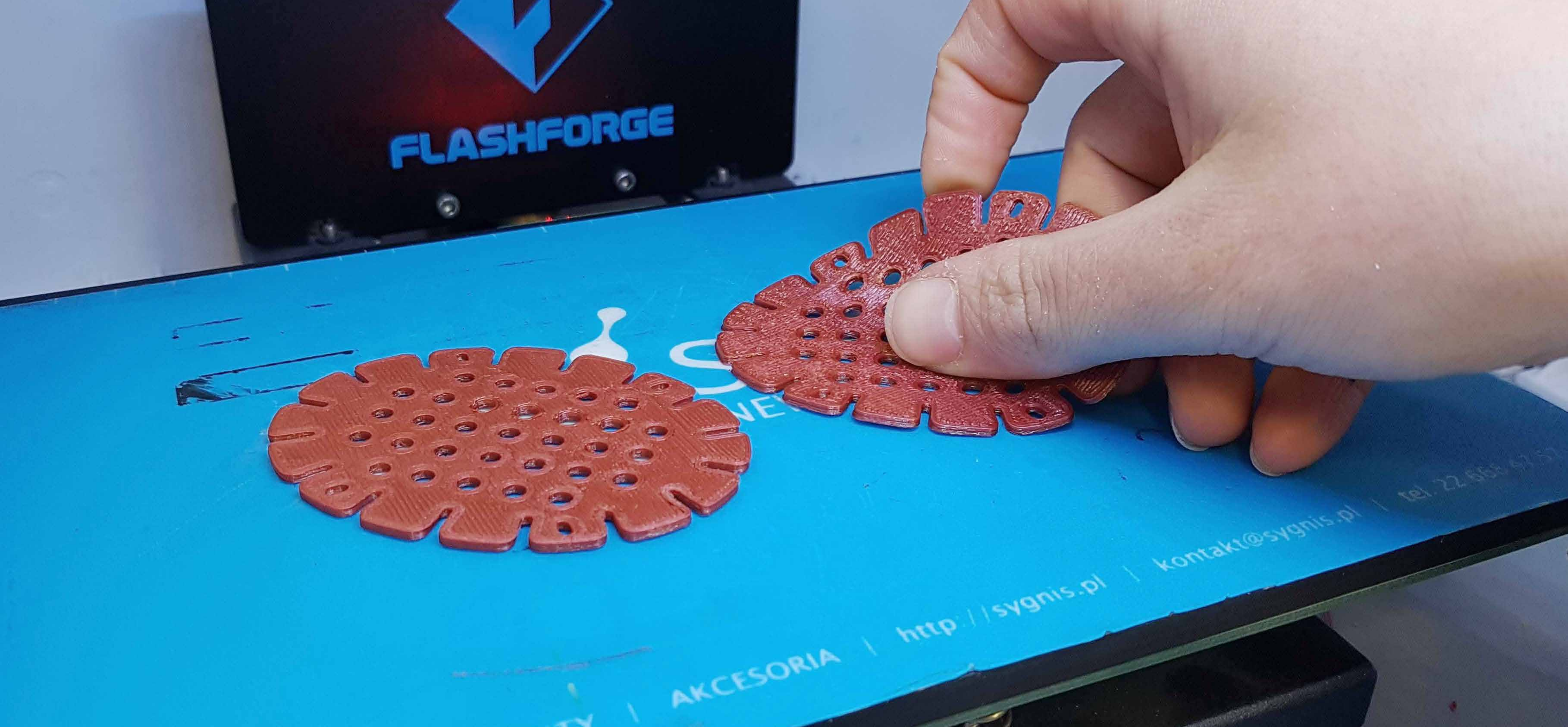
Amount of material: 10 m

Infill: 15%

Print speed: 80 mm/s, travel speed: 120 mm/s

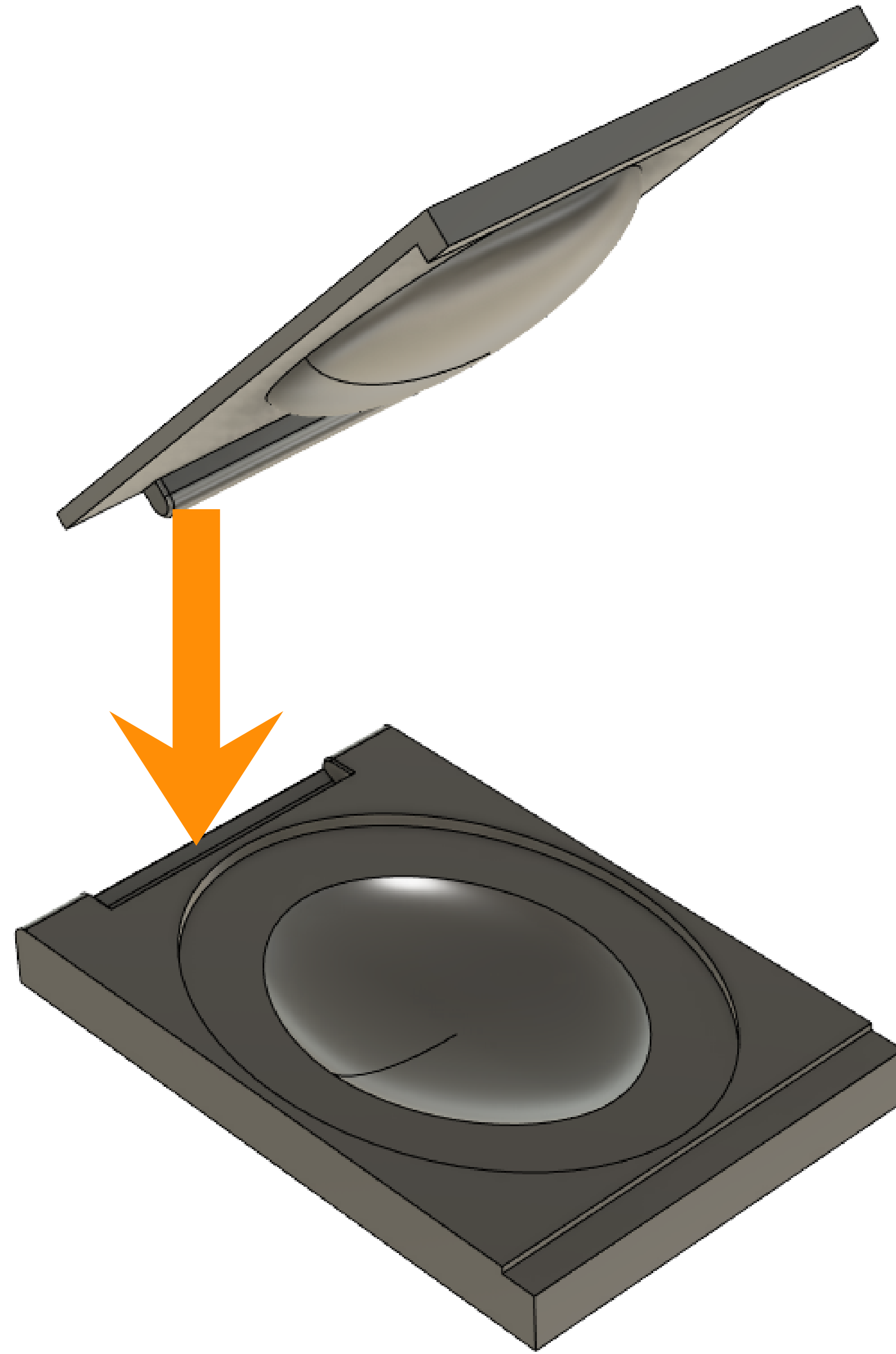
Layer: 0,2 mm

Supports: No

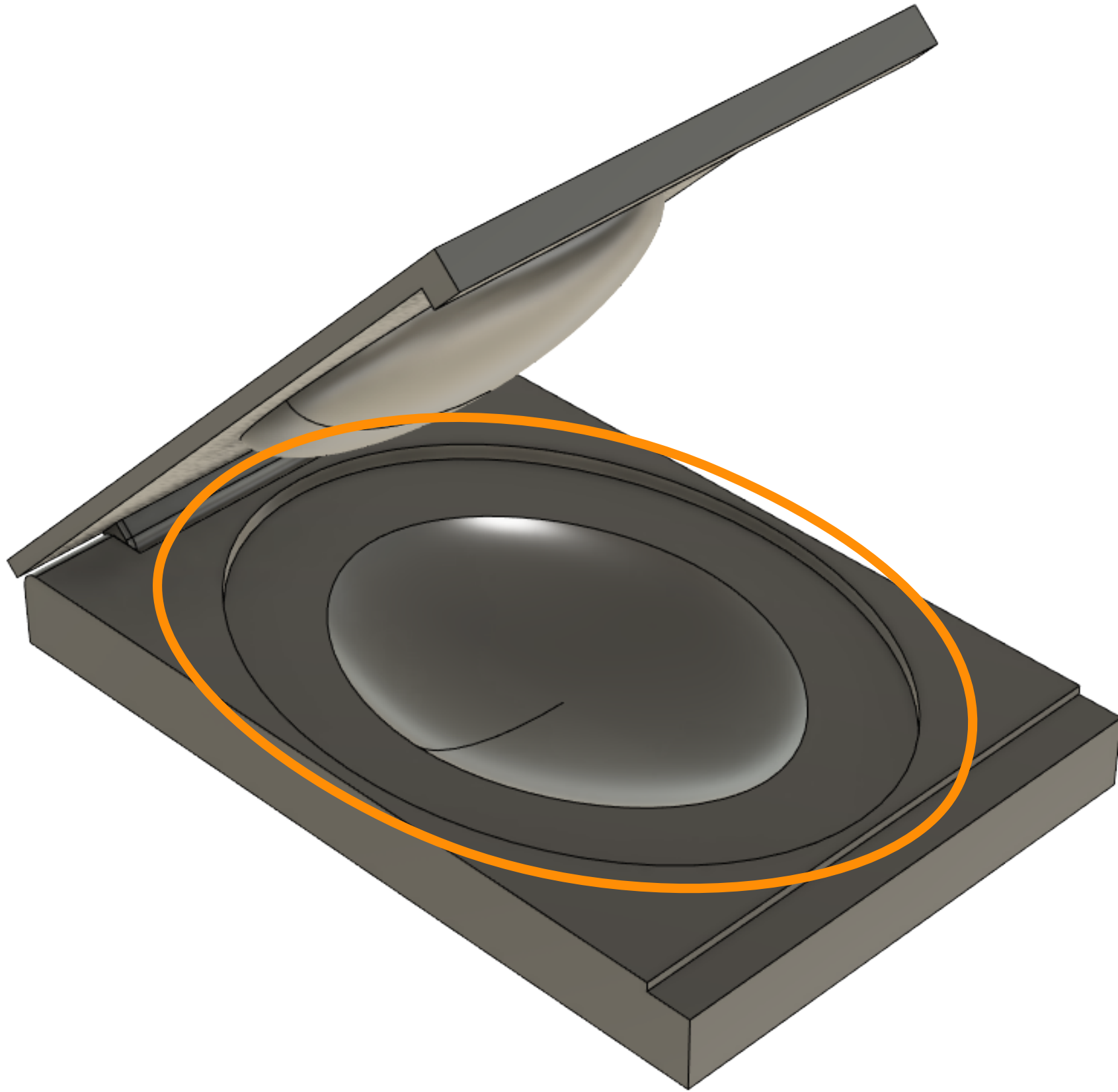


1.

To form the eyeshield into shape place it on the printer's build platform heated to 70°C for PLA (or heat it with a heat gun or a hairdryer) until it softens.



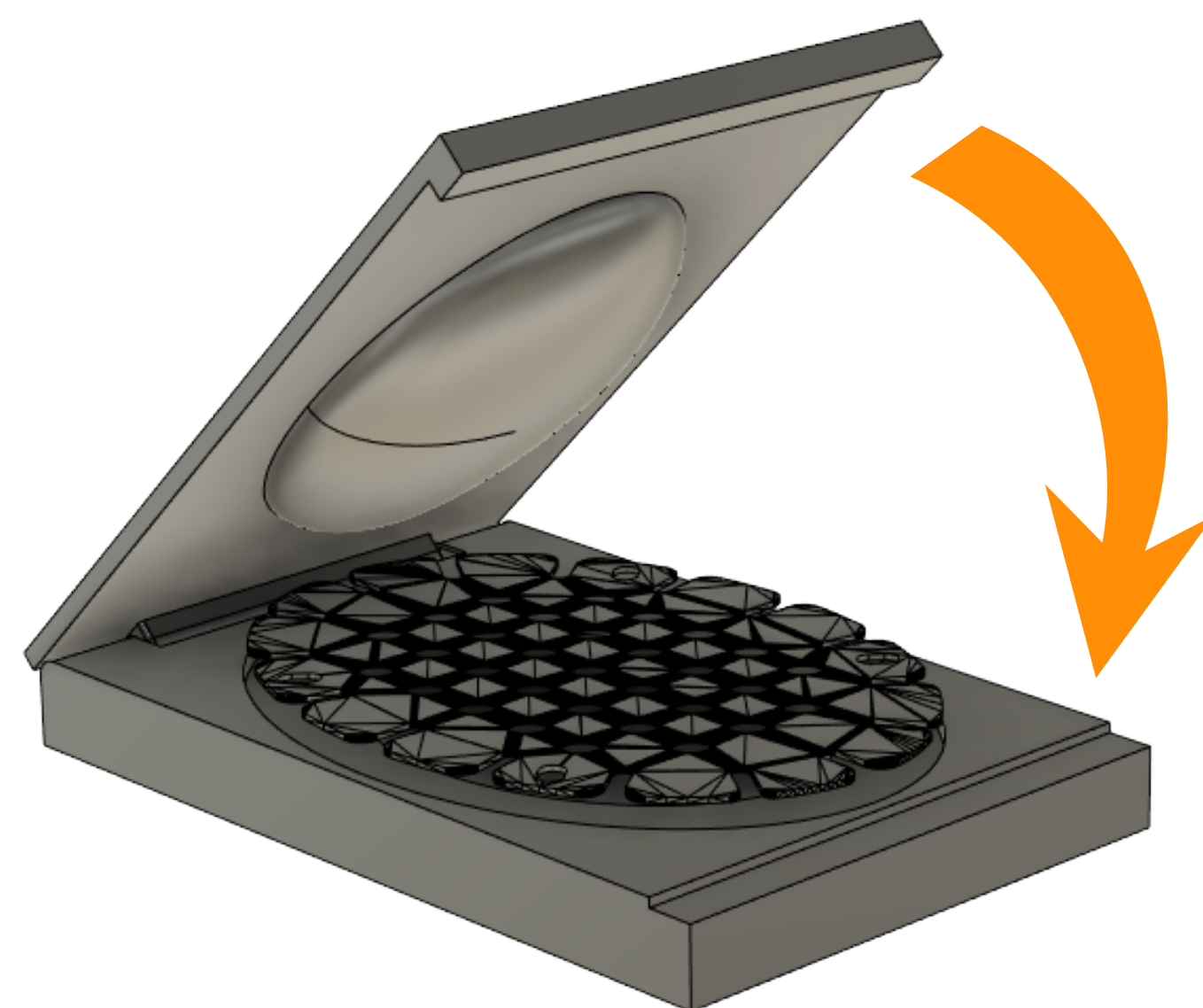
2.
Join both parts of the preform to create a moving joint



3.

When the 3D print becomes soft,
place it on the bottom part of the preform.

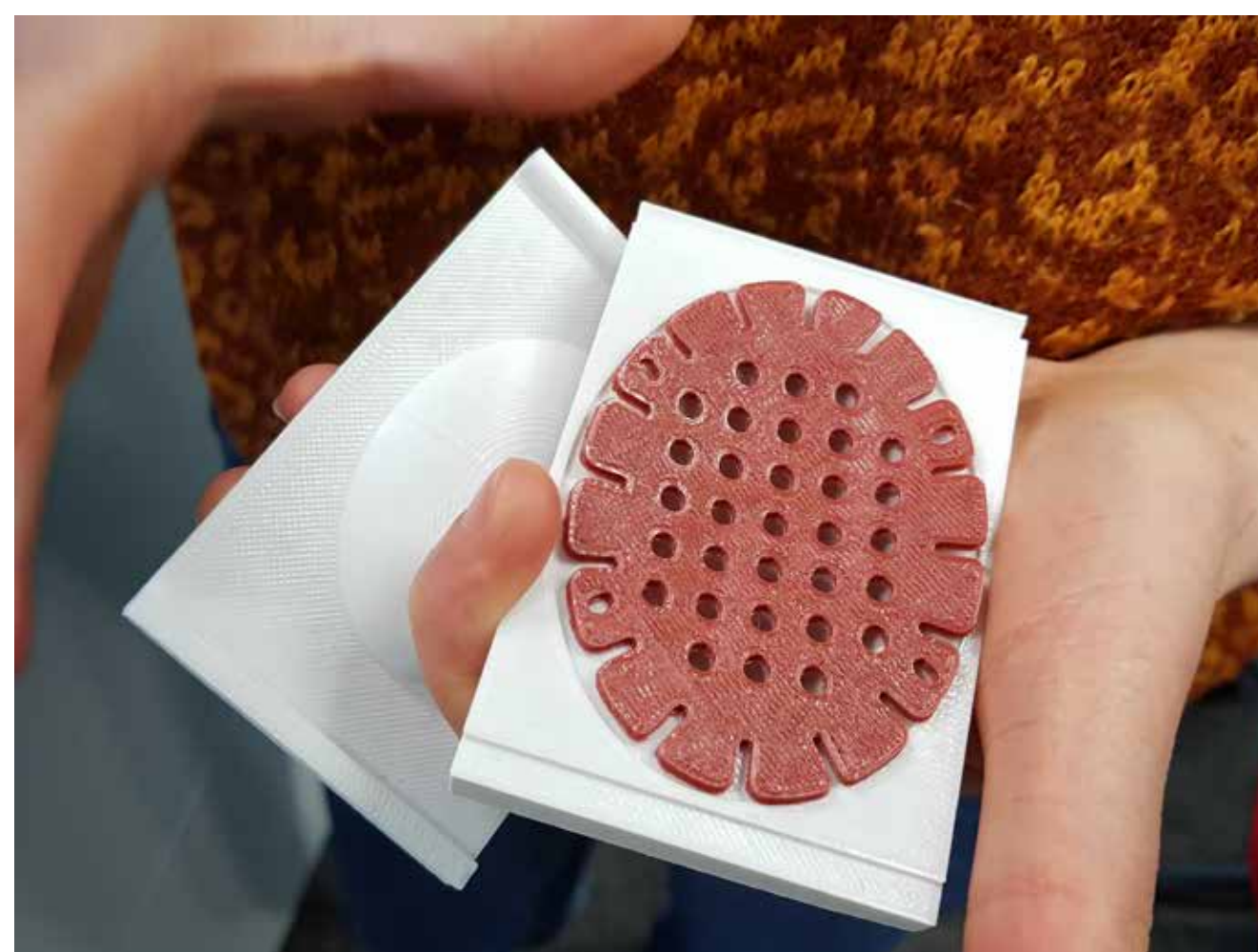
Make sure that the circumference of the eyeshield
fits the ellipse on the preform.



4.

Press the heated eyeshield with the upper part of the preform to shape it.

If any problems occur or the part doesn't shape properly, it can be reheated (step 1) and formed again.





5. After forming, put the elastic hair tie on the rim of the eyeshield.





HOW TO PLACE THE EYESHIELD

1. Use a rigid eye shield.
2. Position the shield so rim of the orbit supports it when taped.
3. Secure the shield with tape.
Recommended 3 strips (or enough to secure).
4. Shield **ONLY** the injured eye.
Shielding both eyes increases patient's anxiety.

DO NOT patch. It puts pressure on the eye.
(DO shield but DO NOT patch).

DO NOT wrap. It puts pressure on the eye.

DO NOT place anything under an eye shield
including gauze.



ПИТАННЯ ЧИ ПРОПОЗИЦІЇ ХОЧЕШ ДОПОМОГТИ У ДРУЦІ

Пиши на HELP.UA@SYGNIS.PL
Знадобиться кожна порада чи пропозиція
Знадобиться кожний принтер 3д

CHCESZ POMÓC, DRUKUJĄC? POMYSŁY NA WYDRUKI?

Napisz do nas na HELP.UA@SYGNIS.PL
Przyda się każda rada, poprawka czy uwaga.
Przyda się każda drukarka 3D.

DO YOU WANT TO HELP BY 3D PRINTING? QUESTIONS OR SUGGESTIONS?

Write to us at HELP.UA@SYGNIS.PL
Any advice, correction or comment will be useful.
Any 3D printer will come in handy.

SYGNIS

SPÓŁKA AKCYJNA