

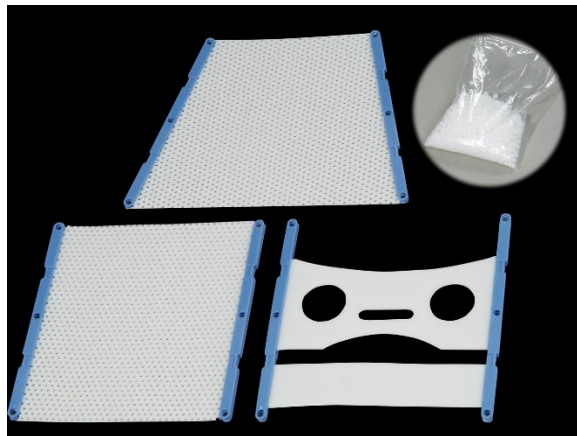
Indications For Use: IOS Brainlab-Style Frameless SRS Thermoplastic Masks

1. Heat water bath to 70°C-80°C (158°F-176°F)

2. Preparation

The following items are necessary to mold a mask:

- a. Top Mask
- b. Middle Mask
- c. Rear (occipital) Mask
- d. Package of loose pellets
- e. Dental support strip
- f. Clips and spacers from the Frameless SRS Mask
- g. Accessories will also be needed.



3. Patient Positioning:

- a. To position the patient properly, place the patient's head within the Frameless SRS Mask Base and onto the Frameless SRS Mask Support Cushion.
- b. Position the patient so that the mask base is adjacent to the patient's shoulders and the occiput is resting comfortably on the Frameless SRS Mask Support Cushion. As the material might stick to porous surfaces after activation, it is recommended to cover the patient's hair with plastic wrap or plastic hair net.
- c. Note that the H & N Base Plate fulfils the same function as the Frameless SRS Mask Base and can also be used for mask molding.

A note on the IOS Brainlab-Style Frameless SRS mask material: The Brainlab-branded masks take 30 min to cure (per their instructions). The IOS Brainlab-style masks only take about 10-15 min to cure. If the bridge of the nose piece is not super thick, the mask only takes about 10 min. It is therefore recommended that the staff work diligently to ensure proper adhesion of the mask layers during forming.



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4. Molding the Rear Mask

- a. Place the Rear Mask into the heated water bath; leave it there until it becomes translucent (40-60s).

The mask material should not be exposed to temperatures above 80°C (176°F).

- b. Remove the Rear Mask from the water bath and dry it.
- c. Check the temperature of the mask to ensure patient comfort.
- d. Lift the patient's head and mount the Rear Mask onto the Frameless SRS Mask Base.
- e. Lower the patient's head onto the mask.
- f. Gently mold the material to the contour of the patient's head as the mask material is hardening.

***Warning: If the temperature of the mask is too high, the patient may suffer skin irritation or burns.

***Warning: The mask material may cause mild irritation to patients with sensitive skin. If lesions or open wounds are present in the face of the patient, they must be covered before you mold the mask using plastic wrap or adequate dressings.

5. Molding the Middle Mask

- a. Place the Middle Mask into the water bath until it becomes translucent. This may take a little longer than the lower mask.
- b. Place the 2mm spacers onto the Frameless SRS Mask Base. Make sure the indentation is on the outside.
- c. Remove the translucent mask from the bath and dry it.
- d. Check the temperature of the mask to ensure patient comfort.
- e. Position the mask
 - 1) The stripe with the three holes is placed beneath patient's nose closely covering the patient's chin and the middle hole leaving room for the patient's mouth.
 - 2) The solid stripe is positioned on the patient's forehead as shown:



- f. Mount the Middle Mask to the Frameless SRS Mask Base and secure the mask using the 2mm manufacturing clips.
- g. Gently mold the strips to the facial contour of the patient as the mask material is hardening.
- h. Molding the Nose Bridge:



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- 1) Place the loose pellets onto the mesh sheet supplied with the Frameless SRS Mask Set and place them into the water bath.
- 2) After the pellets have become transparent, roll them in your hand to create a t-shaped form.
- 3) Place it on the bridge of the patient's nose and gently mold it toward the strip on the forehead and down toward the eyes, going no closer than 3mm to the eyes.
- 4) You can stretch the top of the nose strip outward to create extra contact with the forehead strip.



i. Optional: Molding the Mandible Strip

- 1) Place the loose pellets onto the mesh sheet supplied with the Frameless SRS Mask Set and place them into the water bath.
- 2) After the pellets have become transparent, roll them in your hand to create a thin rectangular form.
- 3) Place it in the patient's mouth and ask them to gently hold the strip between their teeth until it hardens.
- 4) Pull the strip slightly up and over the middle mask strip on the patient's upper lip and gently press to adhere the mandible and middle mask pieces together.





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- j. For the best connection, the Middle Mask should still be translucent when molding.
 - k. Let the Middle Mask, Nose Bridge and Mandible Strip completely harden.
6. Molding the Top Mask
- a. Place the Top Mask into the water bath until it becomes transparent.
 - b. Remove the clips from the Frameless SRS Mask Base.
 - c. Remove the mask from the water bath and dry it.
 - d. Check the temperature of the mask to ensure patient comfort.
 - e. Pull the mask over the patient's face, starting with the narrow end at the chin ending at the patient's forehead.
 - f. Clip the 2mm clips on each side of the Frameless SRS Mask Base.
 - g. Gently contour the mask to the patient's face as the mask material is hardening.
 - h. Let the mask harden for at least 10 min.
7. Removing the Mask
- a. After the mask is completely hardened, first open the clips and then remove the Top and the Middle Mask.
8. Tightening the Masks (if necessary)
- a. Remove the 2mm clips, the Top and the Middle Mask.
 - b. Replace the 2mm spacer with the 1mm spacer.
 - c. Place the masks back in their former position and secure with the 1mm clips.
 - d. If the mask needs to be tightened even further, remove the 1mm spacer and replace the clips with the clips without marking.

*****Caution: Be sure to record the appropriate size of the spacer and clips, and attach the patient identification to the mask.*****

*****Caution: Do not use hot water (>30°C or >86°F), aggressive detergents, ultrasonic cleaners etc.*****

Note: If treatment is performed with static fields rather than convergent arcs, it is suggested to either window or avoid the double-layer areas of the mask for your beam path when skin-breakdown starts to occur.