Individual impression trays (functional trays), base plates (bite plates)

Materials & Accessories

Fabrication:

- Recommendation for individual impression trays:
- Erkoplast PLA-W, white and Erkoplast PLA-T, transp., 3.0 mm (upper jaw), 4.0 mm (lower jaw)
- Recommendation for base plates:
- Erkoplast PLA-R, 1.5
- Erkoplast PLA-T, transparent, allows to recognize pessure areas at the tray.
- As spacer Erkopor black, 8 mm (110 901) for Erkopress- and 3 mm (110902) for Erkoform-units.
- PLA-handles (222 500 high / 222 550 flat) out of plastic.
- Wax bite rims for bite plates (hard 75 63 00, medium 75 63 02, soft 75 63 03).

Model preparation:

- Erkogum (110 844) for blocking out and for covering the residual teeth, high-fusing wax (725 080) for filling bubbles in the plaster.

Finishing:

- Fissure bur, rightward cutting, left spiral (110 836), coarsely crosscut tungsten carbide bur (110 833) for grinding and Liskosil-I (223 240) or Lisko-B (223 300) for smoothing the edges. Liskosil-m (223 230) or Liskoid (223 205) for smoothing the areas around the PLA-handle.
- Erkogum (110 844) for blocking out and for covering the residual teeth, high-fusing wax (725 080) for filling bubbles in the plaster.

Hints

- Model areas (exterior vestibulum, oral floor) which obstruct the thermoforming process have to be removed. Remove sharp plaster edges.
- Carefully block out residual teeth and undercuts.
- If stops are required, cut holes into the spacer (Erkopor black) in the area of the ridges (using punch pliers).
- If the models are placed into the granules, trimming the models is not necessary.
- The impression of the Erkopor black and the smoothing of the edges with Liskosil-I improves the retention for impression materials at the tray.
- Tray handles out of plastic reinforce the lower jaw tray when there is a flat ridge.

Individual impression tray

Thermoforming material: Erkoplast PLA-W, white und Erkoplast PLA-T, transparent 3.0 mm (upper jaw), 4.0 mm (lower jaw)

1. Block out residual teeth and undercuts with Erkogum.

Recommendation: Embed the model so far into the high grade steel granules that the tooth alignment plus 3 mm protrude from the granules.

3. Place the Erkopor black spacer directly onto the model.

5. The PLA-handle bonds reliably by

heat with the tray material.

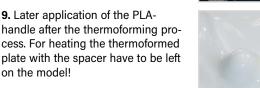
PLA-handle and ridge should roughly fit together ...































2. If the model is placed onto the model disc, put the black rubber spacing ring around the flat trimmed model base.

For better removal put some Erkogum to the rubber ring.

4. Thermoform and allow to cool down.

Before finishing, the application of the PLA-handle during or after thermoforming will be shown.

6. ... if necessary, adapt handle by heating with the hot air burner.

8. ... into the hot, plastic tray material.

10. Heat with hot air burner and press the PLA-handle into the hot, plastic tray material.

11. Remove thermoformed plate and pull the spacer off.

Cut out the desired shape with a fissure bur, possibly mark it before.

13. Finished, individual impression tray with PLA-handle high.









12. Use the coarsely crosscut tungsten carbide bur (110 833), (>15 000 rev/min) to work on the final shape and the edges.

Smooth the edges with Liskosil-I (10 000 rev/min).

Finished, individual impression tray with PLA-handle flat.

Base plate (Bite plate)

Thermoforming material: Erkoplast PLA-R, rose, 1.5 mm

14. Procedure as described in step **1-4**, however, without spacer.

Finishing as described in step 11 and 12.









15. Finished base plate (bite plate) with wax bite rim.

