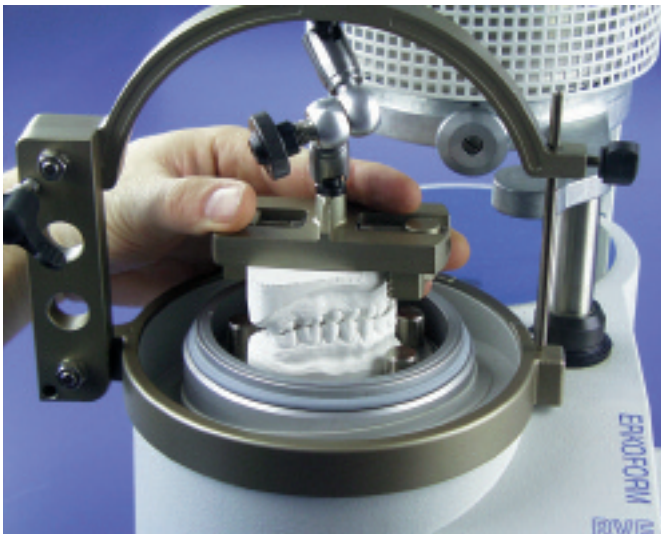
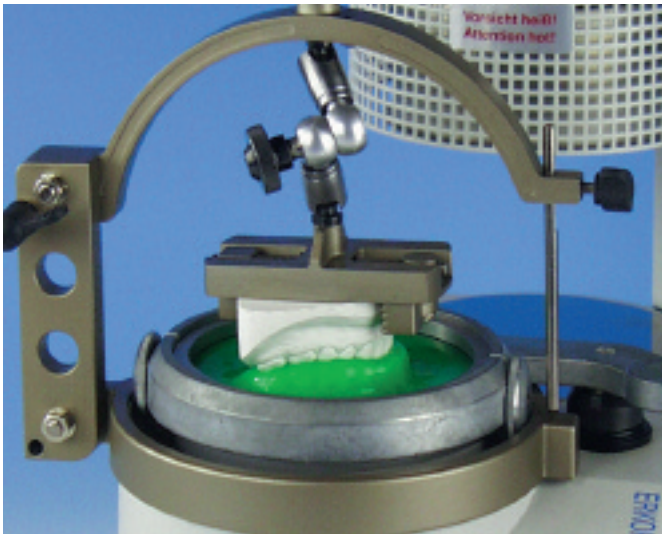
Operating the OCCLUFORM (ERKOFORM-RVE)





Materials & Accessories

- *Materials:*
  Principally all kind of thermoforming materials are suitable. Erkodur, Erkoloc, Erkoloc-pro, Erkoflex-95 for adjusted splints, Erkoflex for positioners and sports mouthguards. Isolac (624 050) for insulation. Degreasing agent (613 050) for the production of positioners.
- *Model preparation:*
  The models will principally be prepared as described in the respective thermoforming application.

Notes

- The Occluform device can only be installed on the Erkoform-RVE unit.
- In its function the Occluform corresponds to an occludator or fixator and not to an average movement articulator. The sagittal measurements are about 20 % higher than in an average movement articulator. If the bite will be lifted at the supporting pin, there will be a greater bite elevation in the molar area than by using the average movement articulator. The result will be a distal additional elevation which is desired for some appliances.
- To exactly reproduce a bite, ideally a construction bite is required to which the device will be adjusted with the supporting pin.
- The Occluform device has two swivel joints of which one at a time is blocked.
- **If the splint for the upper jaw will be fabricated, the upper hinge remains blocked** (see instructions Occluform).
- **If the splint for the lower jaw will be fabricated, the lower hinge remains blocked** (see instructions Occluform).

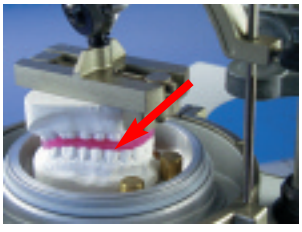
1. Clamp the model into the model pot.

2. Put the model pot into the Erkoform-RVE unit, the markings (arrows) have to be opposite.

3. The opposing model has to be fixed onto the upper model plate. Open the hydraulic joint, push the opposing model upwards and close the Occluform. Avoid that the upper model falls onto the lower model.

4. When the supporting pin has contact, the models can be put into occlusion, with or without a construction bite.

5. If a construction bite is available, the bite proportions can be exactly reproduced.



6. Close the hydraulic joint in this position.

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7. If desired, the bite can be opened now by lifting the supporting pin. Please note the instructions mentioned in section 'Notes'.

8. Fill the model pot with granules. Leave a gap of 2 mm below the intended finishing line of the material.

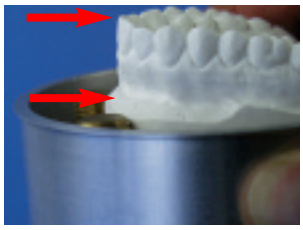
9. The granules may also be pushed below the model and should be compressed well.

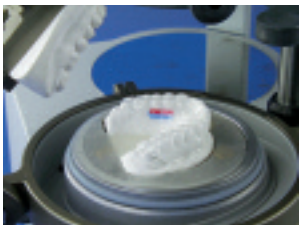
10. Insulate the models with colourless compound (ISOLAC 624 050).

Below please find further steps to fabricate various appliances.

OCCLUFORM: Imprint of the opposing bite
Soft thermoforming material ERKOFLEX (PLAYSAFE)

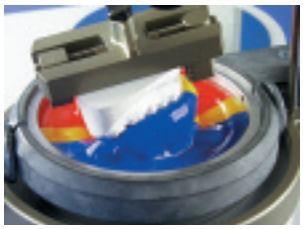
11 a. For a Playsafe mouth-guard, the model has to be fixed that high into the model pot that the first layer can be placed onto the model again without coming into contact with the granules. Afterwards fill up with granules.

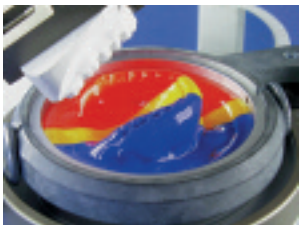




12 a. Fix the opposing bite and articulate the models (**4.+5.**). Block the position, replace the first layer Playsafe onto the model and insulate the opposing bite (**10.**). Adjust the occlusion by lifting the supporting pin.

13 a. Thermoform the second layer and close the Occluform until the supporting pin is in contact. Operate quickly but without high pressure.

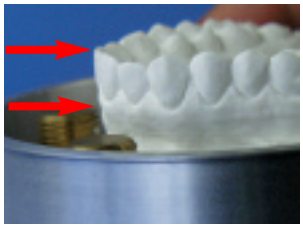


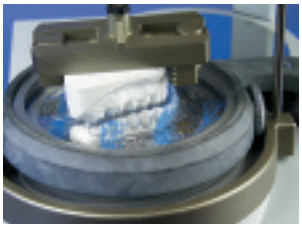


14 a. After cooling down open the Occluform and remove the model (**14 b**).

OCCLUFORM: Hard thermoforming material ERKODUR

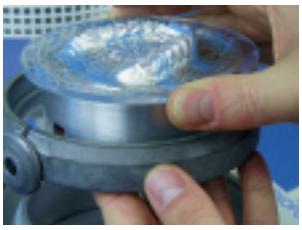
11 b. For the fabrication of adjusted splints only the height of the teeth + 2 mm have to be above the model pot. It can be fixed lower than mentioned for **11 a.**





12 b. Fill up with granules, thermoform - here Erkodur 4 mm - and immediately close the Occluform until the supporting pin is in contact.

13 b. After cooling down open the Occluform...



14 b. ...and remove the model. Therefore lift the foil holder of the Erkoform-RVE, hold the model pot from below, release the frame ring and take off the model with the model pot.

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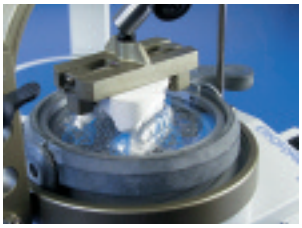
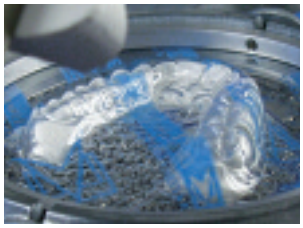
OCCLUFORM: Fabrication of an occlusal splint

An occlusal splint relating to the opposing bite can be quickly fabricated with the foil Erkolen 1 mm (51 12 10).
1. Immediately after thermoforming put the foil Erkolen onto the hot material.

2. Quickly close the Occluform except of about 1 mm. Open the Occluform again, remove the foil Erkolen and...

3. ...very quickly close the Occluform completely. That way there will be an occlusal splint with imprinted contact points.





4. After cooling down open the Occluform and remove the model (**14 b**).

5. The final finishing only requires a few further steps.

OCCLUFORM: Fabrication of a positioner

1. Thermoform an Erkoflex foil onto a model (see page 15). Fix the model of the opposing bite into the model pot, fill up with granules and insulate with Isolac before thermoforming.

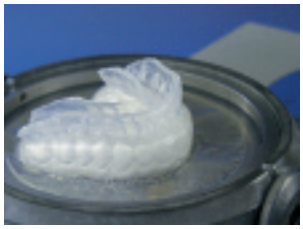
2. Thinly abrade the previously fabricated splint, here lower jaw, especially in the molar area (Lisko-S). The amount of material that has to be abraded depends on the desired bite opening. This lower jaw model...

...has to be fixed without the splint onto the upper model plate.
3. Articulate the models corresponding to the construction bite, tighten the Occluform, open it and place the splint into position.

4. Purify with degreasing agent.

Now thermoform an Erkoflex foil onto the model and....

5. ...immediately close the Occluform until the supporting pin gets contact.



6. The two splints reliably combine with each other to become a monobloc. Now it can be finished as described in instructions positioners.

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