

Definition

Disposable Border-lock® impression trays are disposable plastic impression trays.

The grey coloured disposable border-lock trays are developed for closed impression techniques. The transparent disposable border-lock trays are developed for implant impressions with the pick-up technique.

Material

The border-lock tray is made from Plexiglas® plastic, an FDA-approved material.

Impression Technique dentulous

The border-lock impression trays have been designed specifically for the monophasic and sandwich impression techniques. In the monophasic impression technique, the tray is filled with one impression material. In the sandwich impression technique, the tray is filled with 2 impression materials of different viscosities, which are used simultaneously when making an impression.

Impression Technique edentulous

The border-lock edentulous impression trays can be used with impression materials like alginates, silicones and polyether.

Tray Selection dentulous

The correct tray is determined by taking measurements in the mouth with a divider. The divider's measuring metal plates are brought into contact with the M2 and P2. When selecting the upper tray, this occurs vestibularly, and when selecting the lower tray this occurs lingually. The divider is then placed on the measuring template. When the metal measuring plates completely cover the black shadow figures, the tray number has been identified. The tray number is immediately noted on the patient data card. Insert the tray into the mouth. Clearly check the space between the impression tray and the wisdom teeth, or tubera.

Tray selection edentulous

Lower arch: measure intraorally the distance between the retromolar pads, using the divider. The divider is then placed on the measuring template and the tray number has been identified.

Upper arch: measure the greatest distance between the buccal faces of the alveolar ridge with the divider. The divider is then placed on the measuring template and the tray number has been identified.

Adhesive: Not Compulsory, But Recommended

If border-lock activation and the removal of the impression tray using the pressure technique occur correctly, it is not necessary to use adhesive with elastomers or polyether, in combination with the border-lock impression trays.

For 2 reasons, the use of adhesive is sometimes to be recommended:

- 1) adhesive forms an added safeguard when removing the impression
- 2) adhesive directs minimal thermal and polymerisation shrinkage from the impression material in the direction of the tray's edge, as a result of which the shape of the workpiece is not affected.

Always use the adhesive recommended by the producer of the impression material. The longer adhesive dries, the more effectively it sticks.

A good adhesive for alginate impressions with the border-lock trays is Fix of Dentsply or Hold of Produits Dentaires.

In case of implant impressions: Position of the abutments is visible through transparent tray

The position of the abutments can be indicated on the transparent tray surface with a marker. Then holes can be drilled exactly on the position for the abutments.

Filling the dentate Tray

The tray is filled with monophasic material, or with a heavy body impression material, up to 1 mm under the edge of the tray. Three-quarters of the palate area is also covered.

Filling the edentate Tray

Lower arch: Premodel the impression material in the tray to a slight convexity. Upper arch: Premodel the impression material in the tray: a slight convex surface over the vault portion of the tray and a groove corresponding to the alveolar ridge.

Syringing Prior to Insertion of the Impression Tray

In the mouth, as is customary, the preparations are syringed with wash material prior to the insertion of the impression tray.

Activating Border-Locks

The filled tray is positioned in the mouth. As a result, some of the impression material flows over the edge of the tray into the vestibular area. The impression material will partly also escape to the vestibule by means of the border-locks. It is essential for both the upper impression and the lower impression that the patient's cheeks and lips are briefly massaged. As a result, the entire edge of the tray becomes embedded in the setting impression material.

Removing the Impression

When the impression material has set, the impression may be removed. For the upper impression, the tray must be pressed firmly against the palate, in cranial direction. As a result, the tray is easy to loosen posteriorly. For the lower arch, the impression tray is removed by pushing it downwards, against the jaw, and, at the same time, supporting the jaw with your free hand. This technique simplifies removal of the impression tray.

Disinfection of the Impression to prevent any kind of luxation

The impression should be disinfected in accordance with the instructions provided by the producer of the impression material.

Disposing of Impression Trays

The border-lock impression trays are disposable, and may only be used once. The trays can withstand a maximum heat of up to 98 degrees Celsius, and are, therefore, unsuitable for an autoclave. In order to prevent possible infections, trays should be disposed of after use.

Refilling the Storage Box

After an impression has been taken, a replacement tray must be added to the dental supply box, by taking a corresponding tray number from the refill box.

Date on Which These Instructions Were Issued

May 2003

These products are only supplied to dentists, dental technicians, and to personnel acting under their orders.