

1 Introduction

E-Tray is a light-curing resin for the additive manufacturing of individual dental impression trays and bite template bases. *E-Tray* has been optimized for use with EnvisionTECs *Perfactory® Vida*, *Perfactory® EnvisionOne cDLM* and *Perfactory® D4K Pro series* 3D printers and may only be used together with these printers and the corresponding software systems. *E-Tray* is a medical device classified as class 1 according to 21 CFR part 872. Impression trays and bite template bases from *E-Tray* may only be manufactured by dental technicians and used on a patient by authorized users such as dentists, oral surgeons or orthodontists.

The following Instructions for Use includes safety and environmental information, manufacturing instructions and post-processing procedures of the product, which must be strictly adhered to.

2 Indication

E-Tray is intended for the additive manufacturing of individual dental impression trays, which enable an accurate impression of the upper and/or lower jaw of a patient together with impression material. In addition, *E-Tray* is intended for the additive manufacturing of individual dental bite template bases, which form together with a wax-rim the bite template to determine the relation of the lower jaw to the upper jaw.

Individual impression trays and bite template bases from *E-Tray* are custom-made products for single use during treatment at the dentist, oral surgeon or orthodontist, under consideration of their application and intended exclusively for one patient.

The target group are patients with missing teeth, malpositioned teeth or malocclusions whereby high-risk patients are excluded.

The minimum approved wall thickness is 2mm. After several printing processes the product may show slight color changes. However, this does not reduce the quality of the application.

3 Contraindication

E-Tray may only be used for the production of individual and prefabricated dental impression trays and bite template bases. Any deviation from the Instructions for Use can negatively affect the chemical and physical properties. Consequently, the biocompatibility of the impression trays and bite template bases cannot be guaranteed.

E-Tray may not be used for the manufacturing of further products.

For patient and users:

Patients, users or third parties who come in contact with products from *E-Tray* must be informed about any side effects before use. *E-Tray* products may not be used if there are known allergies to any of the ingredients, otherwise possible side effects such as shortness of breath, gastrointestinal complaints, dizziness, anaphylactic reactions or shocks, itching and tearing (watery) eyes, headaches or reactions of the skin or mucous membrane such as irritation, rash, swelling, inflammation, redness, wheals or blisters or other allergic reactions may occur.

4 Composition

Acrylate/Methacrylates, methacrylated Oligomers and Monomers, photo initiators, colorants/dyes and absorbers

5 Hazard and Precaution Statements

Danger:

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye damage.
- May cause respiratory irritation.
- Suspected of damaging fertility.
- Suspected of damaging the unborn child.

Precaution:

Wear protective gloves, protective clothing, eyes protection, face protection.

First Aid:

- If on skin wash with plenty of water.
- If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed, immediately call poison center.

6 Storage Conditions and Expiry Date

The resin needs to be stored in the original bottle between 41 – 86 °F. While removing the resin it must be protected from exposure to light, as spontaneous self-polymerization is possible. The bottle must be tightly closed after every usage and material removal. Resin inside the machine basement can be re-used for several build jobs. If the level in the tray is too low for subsequent jobs, resin from the bottle can be added as necessary. If the material is not in use, it must be poured back into the bottle. For further information on re-using and mixing material, please check the machine manual. An expiration date is given on the label of every product bottle. The use of expired material is not permitted. The impression trays and bite template bases need to be protected from exposure to light before the final use.

7 Notes on Disposal

Dispose of contents and container in accordance with local regulation.

The manufactured individual impression trays and bite template bases, which are used on patients must be disposed properly due to the risk of infection (contaminated by substances of human origin).

8 Instructions Disinfection and Sterilization

If necessary, the impression trays and bite template bases made of *E-Tray* can be disinfected before use with the following disinfectants: Cidex OPA or a 70% Ethanol-solution. The disinfecting solutions must be used according to the manufacturer's instructions.

Products from *E-Tray* cannot be sterilized.





9 Use of Software Systems and Products from Other Manufacturers

The use of certified software systems for generating the STL-data and the use of additional products depends on user's assessments.

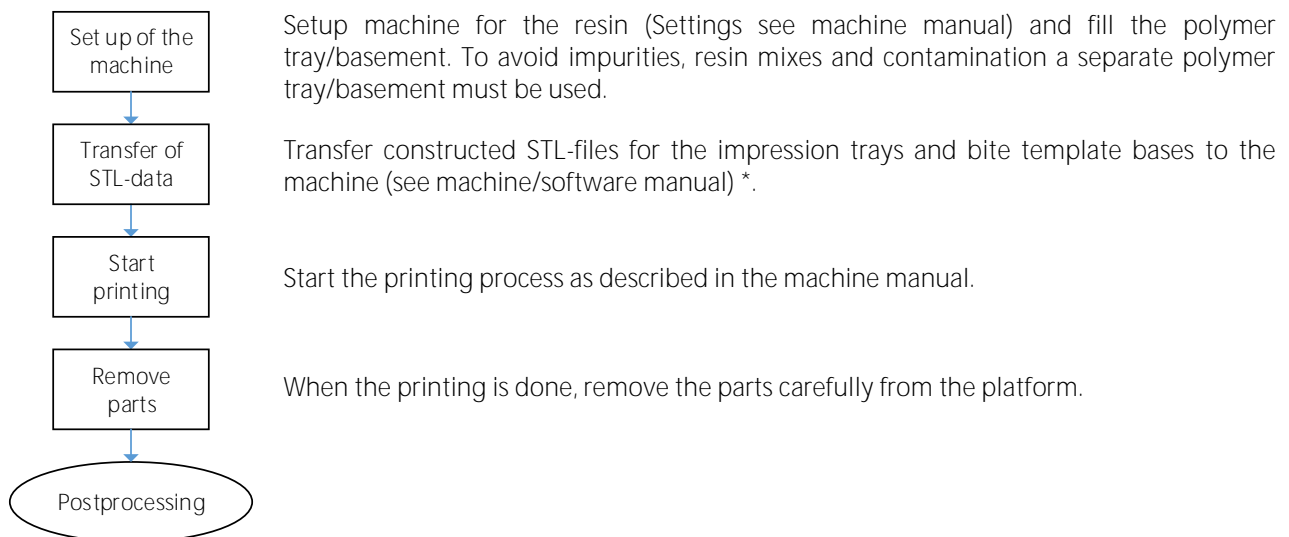
10 Delivery Unit, Symbol Explanation and Manufacturer Information

Delivery unit: E-Tray is available in containers of 1 kg

Symbol explanation:

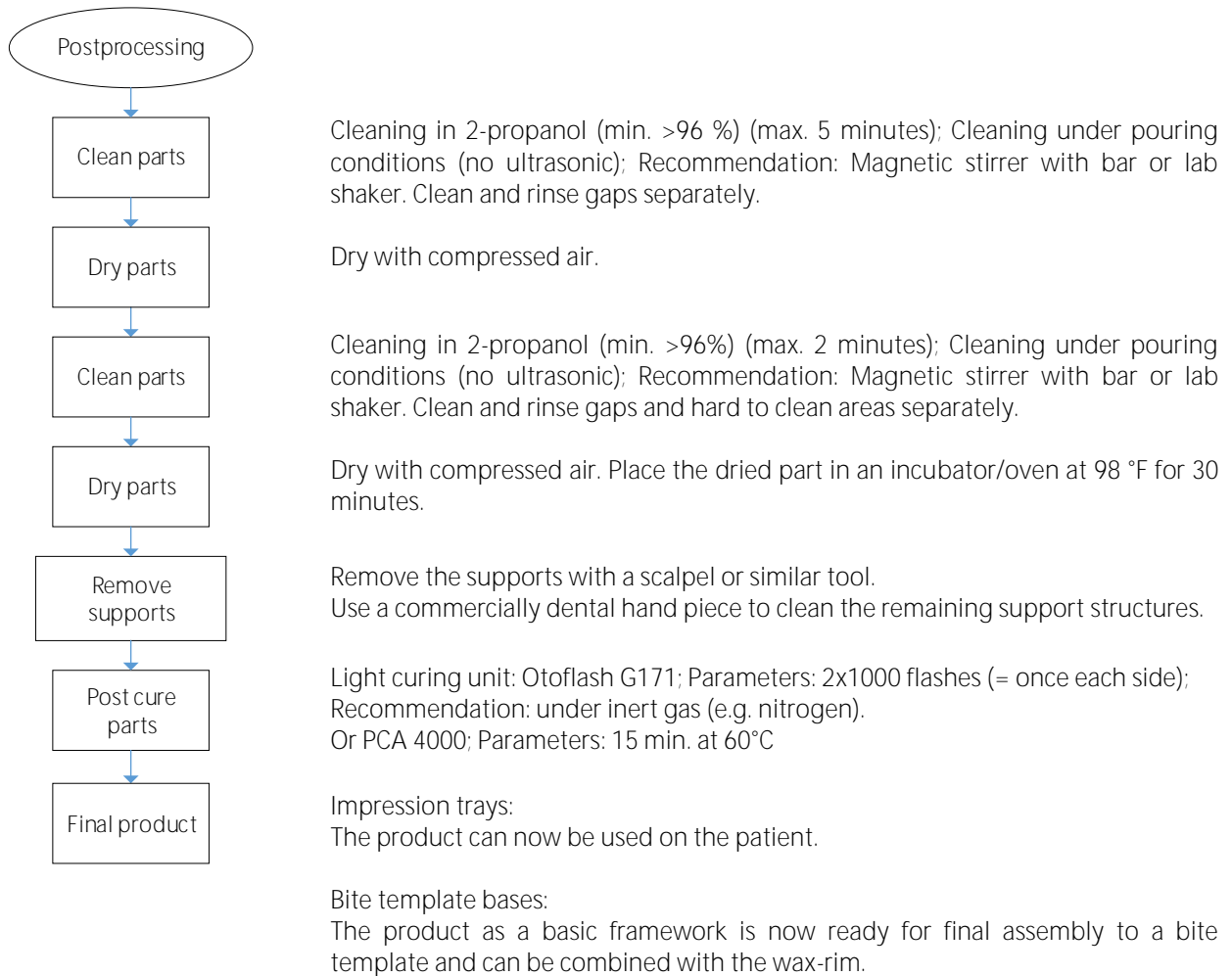
 LOT	Batch number		Protect from sunlight
	Expiration date		Follow Instructions for Use
	Manufacturer		Temperature limit
 REF	Purchase order number		Production date
 Rx Only	Prescription device labeling statement		Unique device identification

11 Manufacturing Process



* The scanning and construction of patient's STL data is the responsibility of the customer. We recommend that only trained dental personnel perform the scanning and design. Further, a certified software such as, e.g. 3Shape is recommended. To generate the support structures, we recommend the Perfactory® RP Software (version 3.1540.1602 or later), EnvisionOne RP (version 1.0.1165 or later) or the Cambridge Software from 3Shape (version 2015 2650 or later).

12 Postprocessing



Finally, the completed impression trays can be used together with impression material on the patient just like the completed bite templates.

Maintain and calibrate equipment according to manufacturer instructions. Using an alternative light source can affect the properties of the final product. It is not allowed to do manual correction by material removal.

13 Reporting of Undesirable Effects

In the event of adverse effects, reactions or similar occurrences arising from the use of this products, including those not listed in this Instructions for Use must be reported immediately by opening a support ticket via our website <https://envisiontec.com/> or by contacting your local distributor.

14 Manufacturer

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