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TECHNICAL DATA SHEET
3D RESIN PORTUX TRY-IN
DPFTPT-158

1. GENERALITIES OF THE PRODUCT

PORTUX 3D TRY-IN resin is a low-viscosity photopolymerizable resin intended for the printing of trial dental structures and prostheses in partially or totally edentulous patients with excellent precision and definition, faithful to the digital design and with tooth shades according to the Vita scale. Its pigment stability guarantees color repeatability in each impression. It is compatible with *open-source* DLP printers with 385 and 405 nm wavelength, and monochromatic *open-source* LCD printers with light of 405 nm.

2. INFORMATION ABOUT COMPOSITION

- Mix of acrylic resins.
- Polymerization initiators (diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide).
- Pigments.

3. PROPERTIES OF THE PRODUCT

- Flexural strength: >50 MPa (ISO 10477).
- Flexural modulus: >1800 MPa (ISO 10477).
- Water sorption: <40 µg/cm³ (ISO 10477).
- Water solubility: <7,5 µg/cm³ (ISO 10477).
- Hardness shore D: >80.
- Non-sensitizing (ISO 10993-10).
- Non-irritating (ISO 10993-23).
- High degree of stability, which guarantees minimum product separation.

4. USE AND APPLICATIONS

PORTUX 3D TRY-IN resin is indicated for the printing of trays or mockups for tests in the patient's mouth.

5. QUALITY ASSURANCE OF THE PRODUCT

New Stetic S.A has strict standardized internal controls in the manufacture of its products, in order to guarantee an optimum quality for the final customer. Additionally, it has qualified personnel in the Quality Control area, where the compliance with the final specifications of the product is verified, in accordance with the established regulations, with the help of physical resources such as calibrated equipment.

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6. INSTRUCTIONS FOR USE

- Shake the container for at least twenty minutes, preferably in a mechanical vibration device or roller, before opening the product for the first time. This ensures proper printer performance and color reproducibility.
- In order to prevent bubbles, shake the product at least one hour prior its use.
- Print with the PORTUX 3D TRY-IN resin following the handling and usage instructions of your printer.
- Post-processing of printed frameworks:

  - Clean the printed frameworks with isopropanol or ethanol (>90%), preferably using an ultrasonic cleaner to facilitate the cleaning process. Immerge the prints in a container with used alcohol for 5 minutes, then immerge them in clean alcohol for the same amount of time. It is recommended to use compressed air between cleanings to remove the resin surplus from cavities or critical areas of the print.
  - Remove the pieces from the alcohol and dry them either by gently applying compressed air or in an oven at 40 °C for 30 minutes. **IMPORTANT**: *Avoid curing wet or moist prints as this affects the final accuracy and definition of the prints.*
  - After cleaning and drying, place the printed parts in the NextDent LC-3DPrintbox curing unit, and cure them, as follows:
    - First exposure: 15 minutes.
    - Turnaround the printed parts and allow them to cool for 5 minutes.
    - Second exposure: 15 minutes

7. COMMERCIAL PRESENTATIONS

The PORTUX 3D TRY-IN resin comes in presentations of 250 g, 500 g, and 1 kg.

8. STORAGE AND PRESERVATION CONDITIONS

The product must be always kept in its original packaging at ambient temperature (< 30°C), avoiding the following conditions:

- Direct exposure to sunlight or other types of radiation.
- High heat or humidity sources.
- Dust or other types of contaminants.