



TECHNICAL DATA SHEET PORTUX 3D MODEL DPFTPT-138

1. PRODUCT OVERVIEW

Low viscosity, photopolymerizable 3D printing resin manufactured with dental grade raw materials, suitable for printing prosthodontic dental models with precise reproduction of details and high surface definition. Printed models with Portux 3D Model resin are suitable for using in the fabrication of all type of dental restorations. The resin is compatible with *open-source* DLP printers with 385 and 405nm wavelength, and monochromatic *open-source* LCD printers with light of 405nm.

2. COMPOSITION

- Acrylic monomers.
- Polymerization initiators.
- Pigments.

3. PRODUCT PROPERTIES

- Flexural strength: > 70 MPa.
- Flexural modulus: > 1900 MPa.
- Shore D hardness: > 90.
- High stability level, which ensures a minimum product separation.

4. USES AND APLICATIONS

Dental models can be printed with this resin to be used in dental laboratory, such as:

- Simple dental models.
- Die cut dental models.
- Geller-type dental models.
- Models for thermoforming processes.

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 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.

Creation Date		Elaborated by:		Revised by:	
2022-10-24		Research Analyst		Technical Coordinator of Medical Devices	
Class	Page	Approved by:		Update:	Version
E	1 of 2	Technical Director of Medical Devices		2024-10-22	02

REFERENCE DOCUMENT: DPDDPR-019

UPDATE: 2024-01-29

VERSION: 03



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6. INSTRUCTIONS FOR USE

- **Always mix the resin bottle for at least one hour on a mechanical vibration device or roller before opening the product for the first time.** This ensures an optimal performance in the printer and color reproducibility.
- Shake the resin vigorously before pouring it into the printer.
- Print the resin following your printer's instructions for handling and use.
- Post-processing of printed models:
 - For cleaning the printed models isopropyl or ethyl alcohol is recommended, preferably using ultrasonic equipment or shaker. Rinse the models in an alcohol bath for 5 minutes and then, rinse them again in clean alcohol for the same time. It is recommended to use compressed air between cleanings to remove the excess resin within the cavities or critical areas of the model.
 - Remove the models from the alcohol and dry them with compressed air or in an oven at 40 °C for 30 minutes. **IMPORTANT:** Avoid curing damp or wet models, as this affects the precision and final definition of the printed parts.
 - It is recommended to cure the parts under UV light for at least 15 minutes to achieve the maximum strength.
- After printing it is recommended to return the resin to its original container.

7. COMMERCIAL PRESENTATIONS

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

8. STORAGE AND PRESERVATION CONDITIONS

Keep the product in its original container, preserving it from the follow situations:

- Direct sunlight exposure.
- Away from high heat and wet sources.
- Dust or another type of pollutants.

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