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TECHNICAL DATA SHEET
PORTUX 3D BASIC
DPFTPT-160

1. PRODUCT OVERVIEW

Low-odor, low-viscosity photopolymerizable resin , ideal for prototype printing. PORTUX 3D Basic resin offers excellent rigidity, low shrinkage, and good detail reproduction in printed structures. Its main application is the manufacture of precision parts. It is widely used in sectors such as engineering, industrial design, and dentistry. This product is compatible with DLP stereolithography printers with wavelengths of 385 and 405 nm, and 405 nm monochrome LCD stereolithography.

2. COMPOSITION INFORMATION

- Mixture of acrylic resins.
- Polymerization initiators.
- Pigments.

3. PRODUCT PROPERTIES

- Flexural strength: >50 MPa.
- Flexural modulus: >1600 MPa.
- Viscosity: 140 – 220 cP

4. USE AND APPLICATIONS

With this resin, working prototypes can be printed for different industries, such as:

- Engineering prototypes.
- Product prototypes.
- Architectural models.
- Detailed figures
- Low-precision dental models (wax-ups, antagonists)

5. PRODUCT QUALITY ASSURANCE

Internally, New Stetic SA has strict standardized internal controls in the manufacturing of its products, in order to guarantee optimal quality for the customer.

In addition, it has qualified personnel in the Quality Control area, where compliance with final product specifications is verified in accordance with established regulations. It also relies on physical resources such as calibrated equipment.

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6. INSTRUCTIONS FOR USE

- Shake the container for at least one hour on a mechanical vibrator or roller before opening the product for the first time. This ensures proper operation in the printer and color reproducibility.
- Shake the resin vigorously before pouring it into the printer.
- Print with resin, carefully following the operating and usage instructions for your printer.
- Post-processing of printed models:
    - Clean the models in isopropyl or ethyl alcohol, preferably using ultrasonic equipment or a stirrer to facilitate cleaning. Immerse the prints in a container of used alcohol for 5 minutes and then immerse them in clean alcohol for the same amount of time. It is recommended to use compressed air between cleanings to remove excess resin from 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 will affect the final precision and definition of the parts* .
    - It is recommended to cure the pieces under UV light for at least 15 minutes to achieve maximum strength.
- After printing, it is recommended to return the resin to its original packaging.

7. COMMERCIAL PRESENTATIONS

The commercial presentation of PORTUX 3D BASIC resin is in containers of 250 g, 500 g and 1 kg.

8. STORAGE AND PRESERVATION CONDITIONS

The product must always be kept in its original packaging, protecting it from the following conditions.

- Direct exposure to sunlight or LED.
- Sources of heat or high humidity.
- Dust or other type of contaminant.