

3D Accuprint Model Hard

Reference No. IFU/MH/00/1022

EN



1. Product Description & Main Ingredients

Accuprint Model Hard is light curing resin for the 3D printing of dental models.

Main Ingredients

Acrylate monomers & Oligomers, Photoinitiator, Pigment.

2. Indications

It is Acrylate monomers & Oligomers based photopolymer for the production of 3D printed dental models. Suitable for printing of unsupported hollow model.

3. Contraindications

- 3.1** Model Hard should not be used for any purposes other than the production of dental models.
- 3.2** Any processing which deviates from that described in the instructions for use can have negative consequences on the chemical and physical quality of Model Hard. Please contact a practitioner/doctor if an allergic reaction or intolerance occurs.
- 3.3** Contains acrylates – people with known allergy to acrylates/methacrylates should not use the product.

4. Precautions (Please read carefully before use)

- 4.1** Protective clothing must be worn when handling Model Hard. Safety goggles and nitrile gloves must be used.
- 4.2** Further information on handling the product can be found in the safety data sheet. However, we cannot completely rule out the possibility of personal reactions to individual components in isolated cases. In such cases, the respective user should discontinue use of Model Hard.

Inhalation

Irritates the respiratory organs. High concentrations can lead to irritation of the respiratory passages, dizziness, headaches and loss of consciousness.

Skin contact

Sensitization or irritation are possible from contact with the skin. Repeated and/ or extended skin contact can cause inflammations.

Eye contact

High air concentrations can lead to eye irritations.

Swallowing

Low oral toxicity; ingestion can, however, lead to irritation of the gastrointestinal tract.

4.3 Sensitivity

Some lab technician may experience transitory postoperative sensitivity. The risk of sensitivity can be minimized by doing small sensitivity test on hand.

5. Direction For Use

5.1 Preparation

In Bottle: Agitate/shake bottle vigorously prior to pouring for at least one minute.

In Material Tray: Stir material with a soft spatula. Take care not to damage the film of the Material Tray.

This step is necessary to re-disperse the (possible) pigment sediment from the bottom of the vessel.

Color deviation and print failures may occur if insufficiently mixed

Note- Model Hard is one of the system components in the 3D print system. The printing settings can be found in the instructions for use for the respective printer or write to info@dtechasia.com

Design of the Dental Model

Once the intraoral scans of the patient are submitted to a dental-design service/lab, the dental model is designed and provided in STL file format by the dental-design service/lab.

5.2 Printing Process

- 5.2.1 Please wear protective gloves (nitrile gloves), protective clothing, goggles and/or face protection during processing.
- 5.2.2 Bring the designed STL files to corresponding slicing software. Position the dental model design with teeth facing away from the print platform and the base lying flat on the print platform. Ensure that support structure is properly designed.
- 5.2.3 Apply D Tech Model Hard setting. (For settings to be used on your specific printer you can write to info@dtechasia.com)
- 5.2.4 Make sure Resin Tank is fully secured and filled to the recommended Resin-Level.
- 5.2.5 Ensure the Print Platform is clean, dry, securely placed, and locked on the platform arm
- 5.2.6 Please follow the instruction given by printer manufacturer while operating the printer.

5.3 Post Processing

A. Cleaning

- On completion of printing, the print objects are detached from the build platform by using the spatula supplied.
 - The print object should be cleaned in two steps with IPA using cleaning bath.
 - Dirty wash- Clean the print object for 2 min in a reusable IPA solution in cleaning bath
 - The precleaned print object must be cleaned thoroughly for 2 min using a fresh IPA solution
- Notes-** The entire cleaning process should not take longer than 5 minutes as this could otherwise have a detrimental effect on the print objects

B. Post curing

- Remove Support structures, if present.
- It must be ensured that the printed object is not deformed
- The completely cleaned print objects must be post-cured in respective post curing chamber to attain the required material properties, some curing profile has been tested by D tech as below
Asiga Flash Cure (low power) - 30min
Ackuretta Curie (High power flashing system) - 10min

6. Packaging & Variants

- High Grade Recyclable HDPE Amber color Bottle containing 1kg

Colour:


Grey, Ivory

7. Storage & Handling & Disposal

Product can be stored at room temperature tightly close the cap after each use to avoid the material curing from ambient light. Do not use after the expiry date.

Disposal

D Tech Model Hard in its polymerized form is not environmentally harmful thus can be disposed of in general waste. D Tech Model Hard in its liquid state (uncured) should be treated as chemical waste. Special disposal requirements are applicable, check with your local, federal, or other regulatory agencies for disposal requirements

 <p>Manufactured By D Tech Dental Technologies, 62, Reality Warehousing Gat No 1337/1, Wagholi Pune India- 412207 Customer Care- 9370145806 E Mail – info@dtechasia.com</p>	<p style="text-align: center;">Limitation of Liability</p> <p>Except where prohibited by law, D Tech will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability</p> <p style="text-align: center;">For Use of 3D Printing Purpose Only</p>
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