

Technical Data Sheet

Dental LCD Resin – Model

Print date: 17-12-2023

Version: 2.0

Product specifications

FormFutura Dental LCD Model Resin is a high-precision photopolymer resin. It has been designed for accurate modelling of dental models, aligner models, gums, teeth, crown and bridge models with removable dies.

Dental LCD Model resin has a surface finish and color similar to gypsum, which perfectly accentuates depth and detail in a dental model. The resin is meant for modelling purposes only and not for intraoral use.

Important key features

- High-resolution 3D printing with fine detail.
- Almost Odorless processing.
- Gypsum-like texture and color
- Temperature resistant for dental aligner production.
- High dimensional accuracy and low shrinkage.
- Compatible with all open-source SLA, DLP, and LCD 3D printers in the range of 385 - 420nm.

Suitable applications

- Models of dentures.
- Implant models.
- Crown and bridge models.
- Models of gums.
- Orthodontic models.

Physical properties after post curing

This data provided for those properties are typical values, and should not be construed as sales specifications.

Property	Typical value	Test Method
Glass transition temperature (Tg)	61°C	ASTM D7028
Water absorption	0.4%	ASTM D570-98
Impact strength (IZOD notched)	17 J/m	ASTM D256A
Tensile strength	46 MPa	ASTM D638M
Tensile Modulus	1100 MPa	ASTM D638M
Elongation at break	8%	ASTM D638M
Flexural Strength	68 MPa	ASTM D790M
Flexural Modulus	1900 MPa	ASTM D2240
Shore D Hardness	83	ASTM D2240
Density	1.18 g/cm ³	
Viscosity	700 cps at 25°C	



Post curing parameters: Specimens are 30min post cured via high power LED curing.

Storage and handling

Provided proper storage and handling precautions are taken we would expect this resin to be technically stable for at least 18 months. For detailed advice on Storage and Handling please refer to the Safety Data Sheet on formfutura.com/downloads.

Product export information

HS Code	Description	Country of origin
29161400	Resin for 3D Printing	Netherlands

Disclaimer

All other information supplied, including that herein, is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine a product's suitability for a particular purpose. We make no warranty, express or implied, including regarding any information supplied or the data upon which it is based or the results to be obtained from the use of such products or information, or concerning product, whether of satisfactory quality, merchantability, fitness for any particular purpose or otherwise, or with respect to intellectual property infringement as a result of use of information or products, and none shall be implied.