

Technical Data Sheet



Platinum LCD Resin – General Purpose

Print date: 11-03-2024

Version: 3.0

Product specifications

FormFutura's Platinum LCD Resin is almost odorless and 3D prints with extremely high accuracy and a very smooth surface finish. It is a general-purpose photopolymer LCD resin that is specifically developed to work with all open source LCD and DLP 3D printers. The Platinum LCD Resin is developed to 3D print with relatively short curing times.

Important key features

- UV & weather resistant.
- Fast printing with short curing times.
- Excellent dimensional accuracy and low shrinkage.
- Low water absorption
- Compatible with all open-source SLA, DLP, and LCD 3D printers in the range of 385 - 405nm.

Suitable applications

- Figurines and models.
- Functional prototyping.
- End-use products.

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)	51°C	ASTM D7028
Water absorption	0,4%	ASTM D570-98
Impact strength (IZOD notched)	18 J/m	ASTM D256A
Tensile strength	45 MPa	ASTM D638M
Tensile Modulus	1000 MPa	ASTM D638M
Elongation at break	8%	ASTM D638M
Flexural Strength	66 MPa	ASTM D790M
Flexural Modulus	1800 MPa	ASTM D2240
Shore D Hardness	82	ASTM D2240

Printing parameters: Specimens are printed on a Phrozon Sonic Mini 4K at 23°C and 50% humidity with a 0,05mm layer height and 5 seconds exposure time per layer.

Post curing parameters: Specimens are 10 min post cured with igh power mercury curing.

Storage and handling

Provided proper storage and handling precautions are taken we would expect Platinum LCD Resin – General Purpose 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
2916140090	Resin for 3D Printing	European Union

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.

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