

Technical Data Sheet

Engineering LCD Resin – Ultimate 2TW

Print date: 12-04-2022

Version: 1.0

Product specifications

FormFutura Engineering LCD Resin - Ultimate 2TW is a very versatile 3D printing resin. This resin is tough and temperature resistant. Next to this, it exhibits excellent UV and weathering stability. Ultimate 2TW is an impact resistant material with a modulus comparable to PP. It has memory shape capabilities and bends back when heated over 70C. A perfect match for many end-use part applications.

Important key features

- High toughness and temperature resistance.
- Modulus similar to Polypropylene (PP).
- Excellent UV and weathering stability specs.
- Memory shape capabilities.
- Low skin irritation characteristics.
- Compatible with all open-source SLA, DLP, and LCD 3D printers in the range of 385 - 405nm.

Suitable applications

- 3D printing functional end-use parts
- Short-run manufacturing.
- 3D printing outdoor parts.
- Manufacturing custom braces and splints.

Physical properties after post curing

This data provided for those properties are typical values, and should not be construed as sales specifications. Specimen printed in ZXY Orientation (ISO 52921) and examined according to ISO 17296-3.

Property	Typical value	Test Method
Young's modulus (Pull)	1700 MPa	ISO 527
Elongation at break	90%	ISO 527
Tensile strength	51 MPa	ISO 527
Glass transition temperature (Tg)	109 °C	
Shore hardness	80A	
Density ρ	1,18 g/cm ³	



Printing parameters: Specimens are printed on an Elegoo Mars 2 Pro at 23°C and 50% humidity with a 0,05mm layer height and 5 seconds exposure time per layer.

Post curing parameters: Specimens are 30min post cured with 200W 405nm UV LED conditioned for 72h at 23°C and 50% humidity.

Storage and handling

Provided proper storage and handling precautions are taken we would expect Economy LCD Resin to be technically stable for at least 12 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	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.