

# Technical Data Sheet

## Engineering LCD Resin – Impact 71D



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Version: 1.0

### Product specifications

FormFutura's Engineering LCD Resin – Impact 71D is a durable 3D printing resin. This engineering resin has mechanical properties like ABS with an improved impact strength. Impact 71D resin has excellent machinability properties, and 3D-printed parts can easily be post-processed. Because of its durability, the 3D-printed parts are excellently suitable to drill into. This makes Impact 71D resin a perfect match for 3D printing mechanical and operational parts.

### Important key features

- 3D resin with ABS-like strength and stiffness.
- Improved impact resistance.
- Excellent machinability properties.
- Compatible with all open-source SLA, DLP, and LCD 3D printers in the range of 385 - 405nm.

### Suitable applications

- Manufacturing strong and stiff prototypes.
- 3D printing tooling parts, jigs and fixtures.
- Mechanical and operational replacement parts.
- Snap-fit assemblies.
- Short-run manufacturing.

### 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
Young's modulus (Pull)	1300 MPa
Elongation at break	19%
Tensile Strength	41,5 MPa
Charpy impact test	51,3 kJ/m <sup>2</sup>
HDT B	42 °C
Density ρ	1,18 g/cm <sup>3</sup>
Shore Hardness	71D



**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 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 Engineering LCD Resin – Impact 71D 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](http://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.*