

Technical Data Sheet

Engineering SLA Resin – Heavy Duty

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Product specifications

FormFutura Engineering SLA Resin - Heavy Duty is one of the strongest resins on the market. It combines flexural strength with durability and heat resistance. 3D printed parts show great resistance to continuous built-up pressure. There are many applications that need strength, stiffness and heat resistance. Our Engineering SLA Resin - Heavy Duty answers this need.

Important key features

- Flexural strength of 135 MPa.
- Stiff and durable.
- High heat resistance of 128°C.
- High dimensional accuracy and low shrinkage.
- Compatible with all open-source SLA, DLP, and LCD 3D printers in the range of 385 - 405nm.

Suitable applications

- Tooling, jigs, and fixtures
- Mold masters for low volume injection molding.
- Functional prototyping.
- 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	Test Method
Tensile strength	91 MPa	ASTM D638M
Tensile modulus	2500 MPa	ASTM D638M
Flexural strength	135 MPa	ASTM D638M
Flexural modulus	3250 MPa	ASTM D2240
Elongation at break	8%	ASTM D638M
Impact strength (IZOD notched)	20 J/m	ASTM D256A
Shore hardness	87D	ASTM D2240
Water sorption	0.45%	ASTM D570-98
Density ρ	1,12 g/cm ³	
Glass transition temperature (Tg)	128°C	ASTM D7028



Post curing parameters: Specimens are 120min post cured via high power LED curing at 60°C.

Storage and handling

Provided proper storage and handling precautions are taken we would expect Engineering SLA Resin – Heavy Duty 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.