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FormLabs Form 2/3 SLA 3D Printer



Tool Type: "3D Printer"

Location: "Innovations Workshop"

Supervisor	Tool Lead
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Description: "Stereolithographic 3D printer"

Manufacturer: "Formlabs"

About

The Form 2 Printers (Magnificent Ram and Electric Colt) are located in Fume Hood #2 in 2448 Elings Hall.

The Form 2 printers are liquid resin stereolithographic 3D printers capable of producing high resolution accurate models out of a variety of materials. Liquid resin printers use a bath of reactive resin which is precisely cured using specific wavelengths of light. This printer is particularly well suited for thin high aspect ratio features and models requiring great surface accuracy.

Based on the material and application, some prints will benefit from post process UV curing to strengthen and harden the finished part. See part curing documentation in UV FormCure reference documentation.

Resin expires a year after the date printed on the cartridge.

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Training Documentation

Form 2 SOP

Detailed Specifications

Build Volume: 14.5 x 14.5 x 17.5 cm (L x W x H)

X,Y Accuracy: ~150 ish microns Layer Thickness: 25-300 microns

Printable Materials: Standard resin (clear or available colors), Durable resin, Flexible resin

Safety Concerns

The resin used in the Form 2 3D printers is considered hazardous. Gloves are to be warn when replacing or removing build plates, build tanks, and resin cartridges. Refer to SDS for disposal and health hazards.

Reference Documentation

https://support.formlabs.com/s/article/Design-Specs?language=en US

flexible resin sds eu.pdf

formlabs_clear-sds.pdf

durable_resin_sds_eu.pdf

workshops 3d printer rates 112019 1 .pdf

Guide to printing with clear resin

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