UV Curing Oven

AMP LED UV-Cube II

Tool Type: “UV Oven”
Location: “Elings 2436”

Supervisor	Tool Lead
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Description: “UV curing oven”

Manufacturer: “AMP LED UV-Cube II”

About

Some Carbon Resins used in the Carbon 3D printer can benefit from post process curing. Each resin has a specific hardening curve which can be found within the reference material which will indicate the ideal time and temperature to be set on the UV curing oven.

Training Documentation

Detailed Specifications

Build Volume: 189 x 118 x 326 mm (L x W x H)
X,Y Accuracy: 75 microns
Layer Thickness: 25-100 microns
General Accuracy: up to +/- 70 µm +1 µm per mm dimension size
Production Repeatability: up to +/- 40 µm

Safety Concerns

The resin used in the Carbon 3D printer 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.

Operating Proceduces

1. Any part to be cured needs to be washed in the FormWash with IPA BEFORE being placed in the form cure.
2. Supports can be removed before or after curing process.
3. Wait 30 minutes after washing to allow all remaining IPA to evaporate
4. Check the reference material for selected resin to determine ideal time and temperature for curing
5. Use the dial on the front of the FormCure to set time and temperature
6. Place part within the FormCure→ press start.

Reference Documentation

carbonresinguide.pdf