Resin Printing Guide:

- -The Fab Lab uses a Stratasys J55 resin printer for all color 3D printing. It involves a resin jetting process with a system of nozels to lay material and support that is then cured with a UV light. Very high resolution color prints are possible.
- -Place your design into the 'J55 Resin Printer Template' file found on:
 - **-Fab Lab Website:** https://www.design.upenn.edu/fab-lab/downloads
 - **-Juno Server:** \\juno\Public\DigitalFabrication\3D-Printing-Templates-Tutorials
- -The black circular outline in the template is the area available to print, however you may not have any object intersecting the marked center cylinder. The maximum rectangular printable size is 5.5 x 7.8 x 7.5 inches, however if your object fits within the black circular outline without touching the center cylinder, it may be printed.
- -You may have multiple objects floating within the circular outline.
- -Assign your objects to the **'Closed Form'** layer. Delete any extra layers or data from your template file. **Files must be reduced to 64MB or smaller.**
- -Be sure that your object is closed. Any open parts to your object will result in a failed print. **Use the Rhino command 'Showedges' on your object.** Any highlighted **naked** or **non-manifold** edges can lead to printing errors.
- **-The smallest recommended object thickness is 0.125 inches for resin printing.** Thinner parts and objects that taper to a zero point have a high risk of breaking.
- -Full color printing must be done by assigning solid colors or texture images to components of your design **by object, not by layer,** in Rhino. All texture image files must be submitted with your 3D print file. A total of 5 texture maps is the maximum per print submission.
- -Material costs will always be calculated before printing. You may print objects that are at risk of failure, however you must sign an acknowledgment form in order to proceed.



