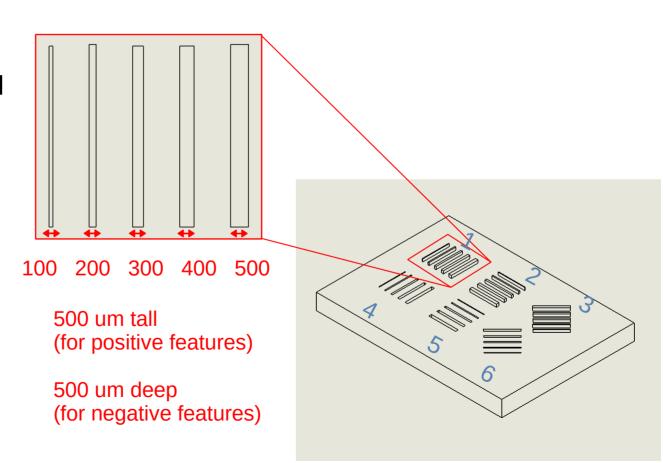
Resin Printer Comparison

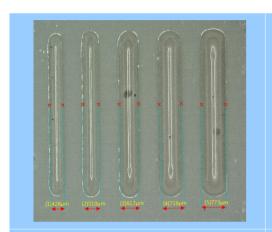
(all units in micrometers)

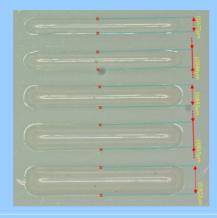
In order to test our resin printer capabilities, this model was designed.

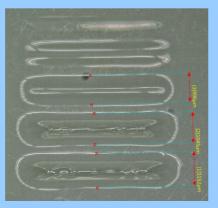
It captures minimum feature sizes for both positive and negative features, while also comparing different print orientations.



Objet30 – Glossy Mode









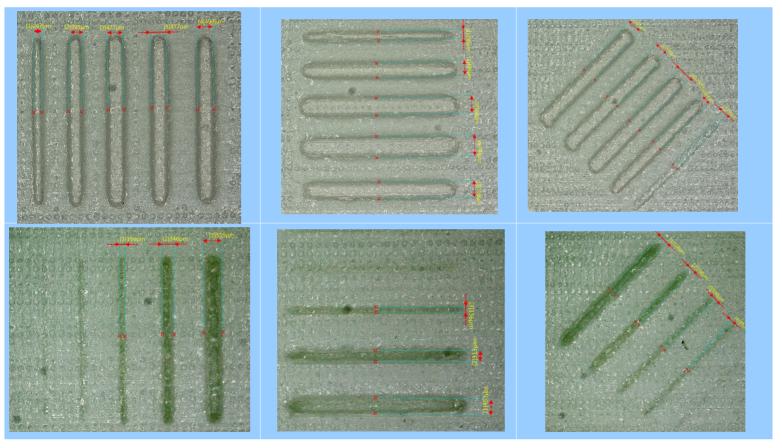


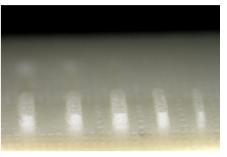


All features are oversized and rounded

Negative features are very poor

Objet30 – Matte Mode



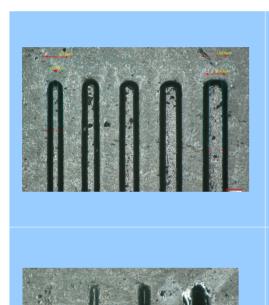


Features are slightly oversize.

Negative features are poor if smaller than 300um.

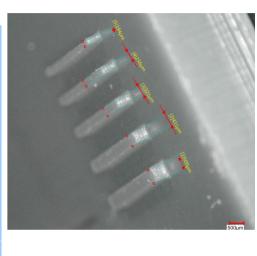
Relatively straight side-walls

Form3 – Tough 2K (adaptive)

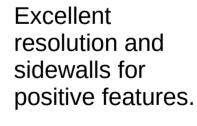






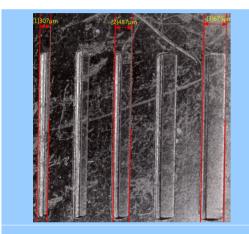




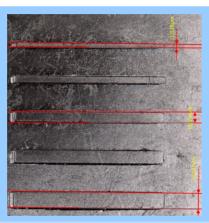


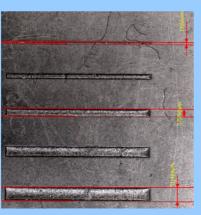
Horrible negative features.

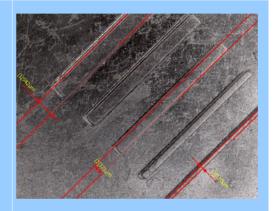
MiiCraft PDMS Mold Resin

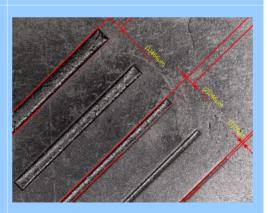












Best XY resolution for both positive and negative features.

Issues with Z – all features came out about 65um tall. Could not image.

General Summary

- Objet30 Glossy Mode results in the smoothest surface finish. Great for molds with features 500um or larger.
- Objet30 in Matte results in a rougher surface, with reasonable resolution. Great for positive and negative features larger than 300um.
- Form3 has the best resolution for positive features, around 200um.
- **MiiCraft** has the best XY resolution, but recipes are trickier and Z height may require iteration. **Great for 100um features** where height is not a critical parameter.