

Flashers - Polyester-Based Bio-Resin (Jerry Chu)

- Use light to cure liquid resin into solid parts
- Volumetric - instead of curing layer by layer allows for light fields to solidify an entire 3D volume at once
- Offers:
 - very fast builds
 - gentle processing (good for delicate structures),
 - smooth surfaces—promising for micro-devices, optics, and bioprinting
- Recently first commercially available polyester resin for volumetric bioprinting
- Relevance?
 - Stronger, slower degrading scaffolds for tissue engineering
 - Allows for implant-relevant lattices that is gentler to living cells
- Tradeoff:
 - Need the right resin, the right amount of light, and good finishing to get strong, accurate parts
 - Bigger builds usually mean less fine detail
- Researchers are actively working to reduce these limits