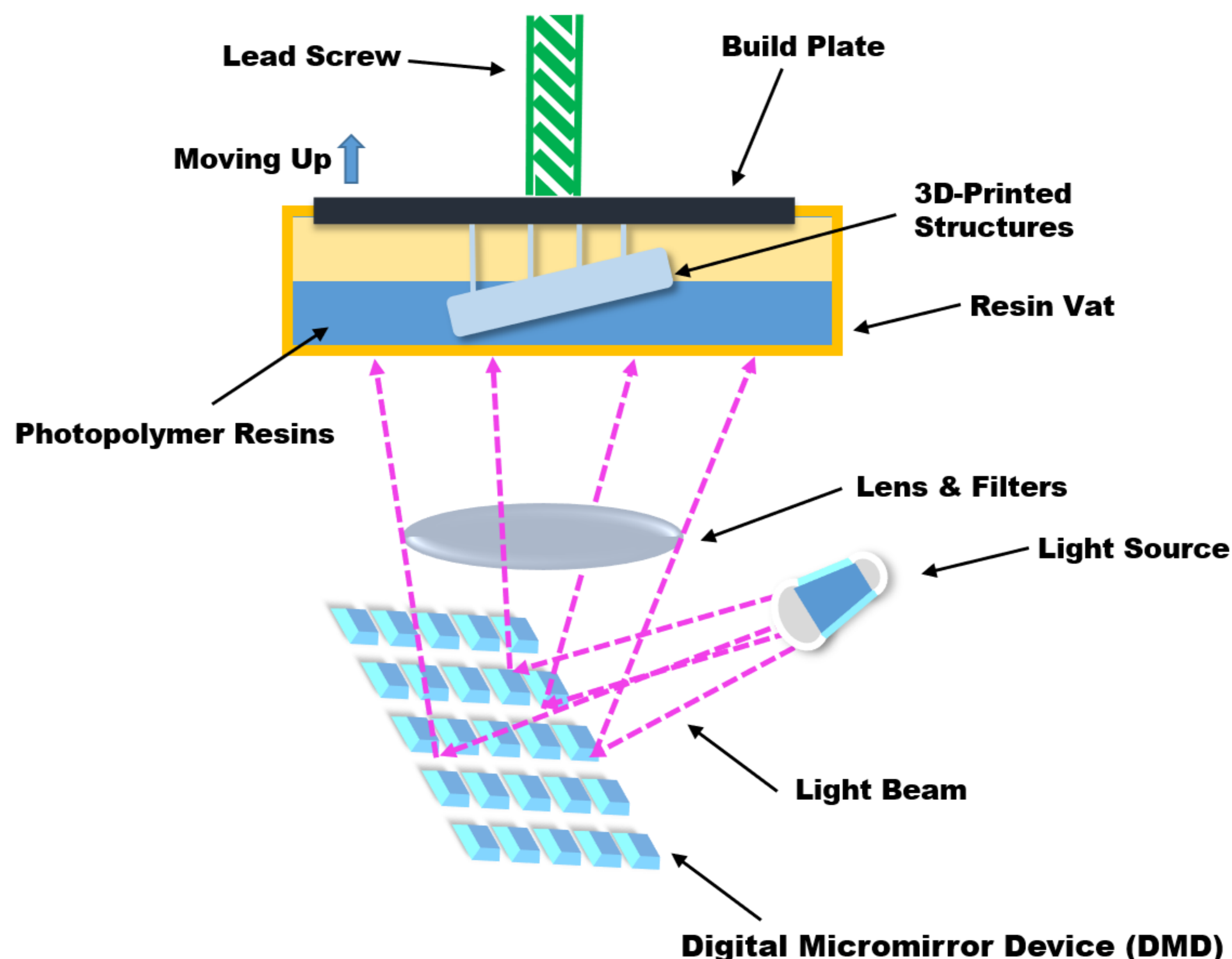


B9Creator



Digital Light Processing



Digital Light Processing (DLP) 3D Printer is evolved from traditional stereolithography (SLA) printer, which is one of the most widely used Additive Manufacturing (AM) technologies. DLP Printer employs a **liquid photopolymer resin**, which is cured layer-by-layer using a Mask-Image-Projection (MIP) technique to form complex 3D structures.

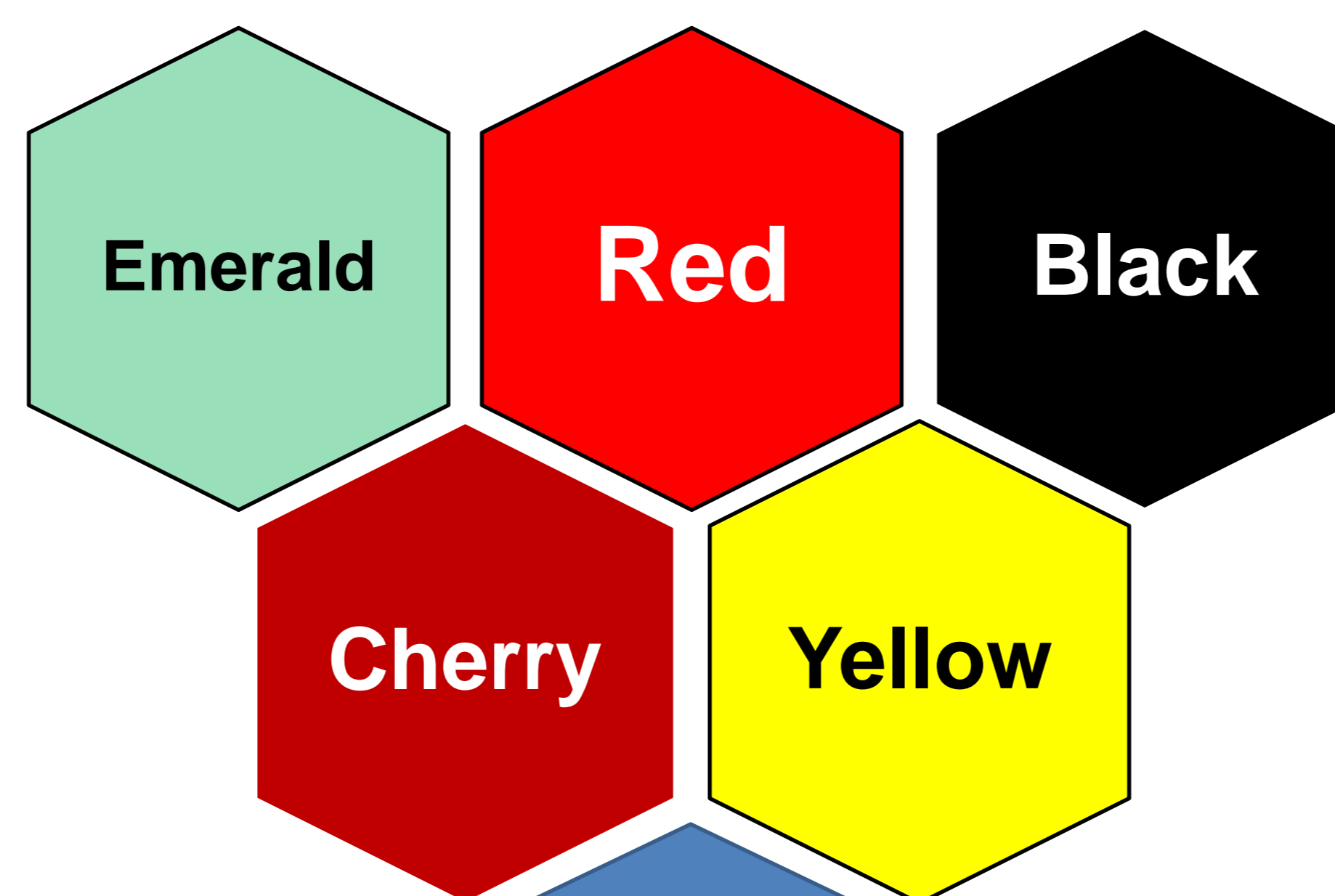
Objects printed with DLP not only share the advantages of SLA-printed ones, including **fine surfaces finish** and **few structural defects**, but also break limitations of SLA by accomplishing **higher resolution** and **faster printing speed**.

The uniqueness of DLP is attributed to **Digital Micromirror Devices (DMD)**, enabling one to simultaneously control ~1 million small mirrors to turn on or off a pixel at over 5 kHz. It realizes simultaneous selective curing of a layer and extremely tiny curing spots.

Specifications

Resolution	Z Axis: Up to 5 microns X & Y Axis: 30, 50, or 70 Microns
Maximum Build Envelope	104 x 75 x 203 mm
Light Source	Digital Light Projector (405 nm)
3rd Party Materials Compatibility	All proper photo curable polymerizations are accepted
Open Source Accessibility	All parameters, including exposure time, curing depth and resolution are adjustable

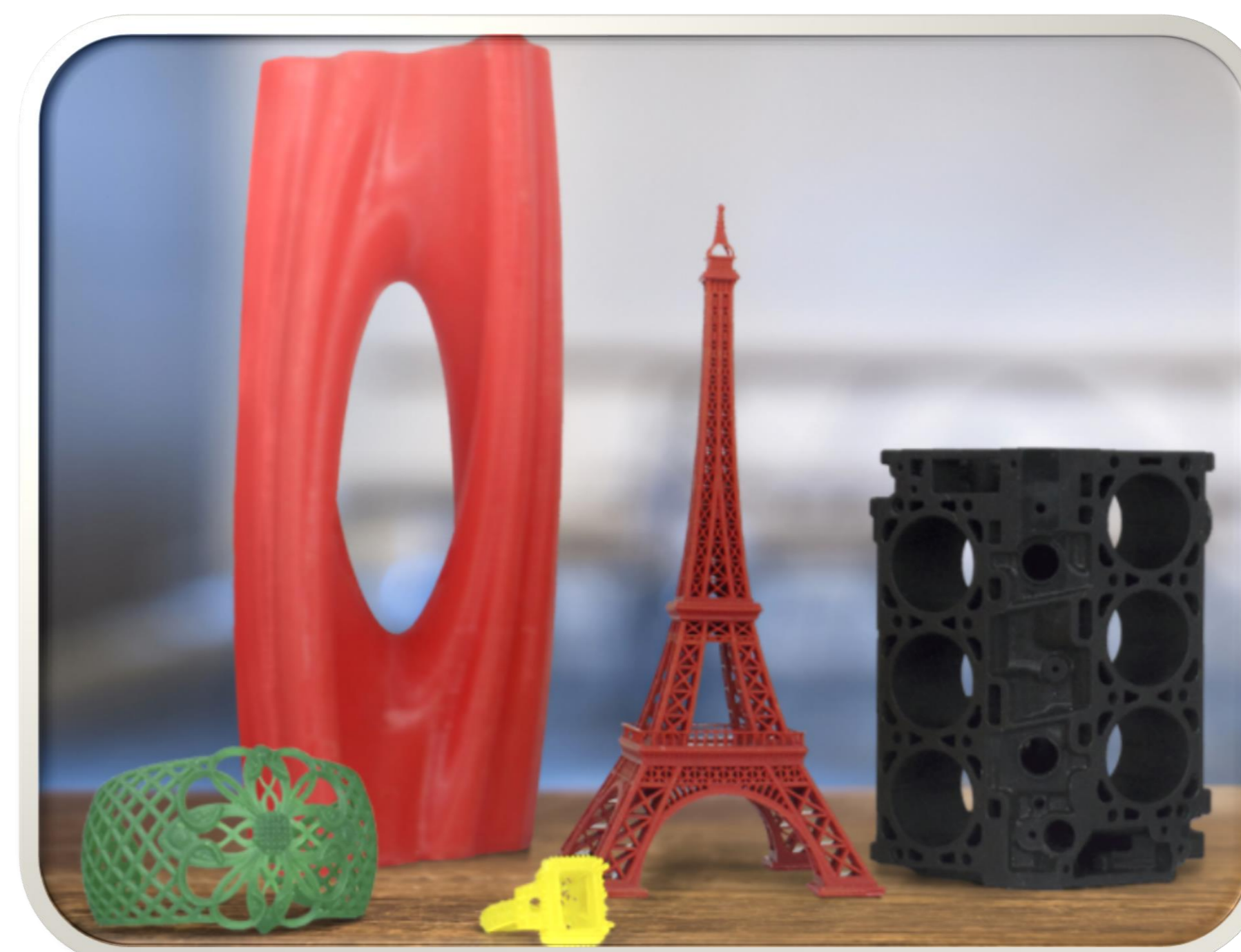
Materials



B9R-Resins

Multifunctional 3rd party materials

4D Printing Tissue Engineering
Soft Robot Printable Electronics



Resin Contents

Mixture of (meth)acrylated Monomers and oligomers with small amounts of photo-initiators and dyes

Gallery

