

## PolyJet Materials

### Photopolymer Material

We can convert your CAD files into 3D objects, dimensionally accurate very fast, using the 3D printing method. Combining high precision acrylic based photopolymer and fine detail, VeroBlue full cure material is ideal for simulating polymers used in production. It gives your parts a look similar to the commercial component and can be built up to 39.3" x 31.4" x 19.6" (1,000mm x 800mm x 500mm). Accuracy for High Quality is 16-micron (0.0006 inch), High Speed 30-micron (0.001 inch).

### Process 3-D printing (acrylic-based)

<b>Product:</b>	Vero Family of colors, Black, Blue Gray and White
<b>Elongation at Break (ASTM D638-05):</b>	20 %
<b>Flexural Strength (ASTM D790-03):</b>	12,122 PSI – (84 MPa)
<b>Flexural Modulus (ASTM D790-04):</b>	287,535 PSI – (1,983 MPa)
<b>Impact Strength (notched Izod) (ASTM D256-06):</b>	0.4 % - (24 J/M)
<b>Heat Deflection Temperature (HDT @ 0.45 MPa) (ASTM D790-06):</b>	120°F – (49°C)
<b>(HDT @ 1.82 MPa) (ASTM D790-07):</b>	113°F – (45°C)
<b>Tensile Strength (ASTM D638-03):</b>	7,990 PSI – (55 MPa)
<b>Tg (DMA, E''):</b>	120°F – (49°C)
<b>Water Absorption (ASTM D570-98-24 hr):</b>	1.5 %
<b>Applications:</b>	Architecture, Computers, Consumer Products, Toys, and Telecommunications.

Disclaimer: All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. Actual capabilities are dependent upon manufacturing, equipment, material, and part requirements.