

Production of custom polymer optics within 6 days, using a smart combination of 3D printing and vacuum casting.

A fast and flexible service for prototyping and batch production.

### Process capabilities:

Minimum and maximum lens dimensions for production:

- Minimum: 2 mm diameter, height: 250µm
- Maximum (L\*W\*H): 55mm \* 150mm \* 20mm
- Minimum pitch (element size): 1mm
  
- Shape conformity (deviation): 80 µm
- Surface roughness: 20nm RMS

### Required input:

- CAD design (.STEP / .STL)

Lens Material: Polyurethane

Properties	Values
Refractive index (Ri)	1,51
Abbe value	49,7
Total Transmission	89,5%
Density @ 25 °C	1.16 g/cm <sup>3</sup>
Operating temperature	Max. 120°C
Linear shrinkage	< 0.4%

