

## < DATASHEET

Version 3.3  
1 July 2020

Production of custom polymer optics within 10 days, using a smart combination of 3D printing and vacuum casting.

A fast and flexible service for prototyping and batch production.



## < TECHNICAL DATA

Min. and max. lens dimensions for production

- Minimum: 800µ diameter, height: 250µ
- Maximum: (L\*W\*H): 55mm \* 150mm \* 20mm
- Minimum pitch (element size): 1mm
- Shape conformity (deviation): 80 micron
- Surface roughness: 20Nm RMS



Required input

- CAD design (.STEP / .STL)

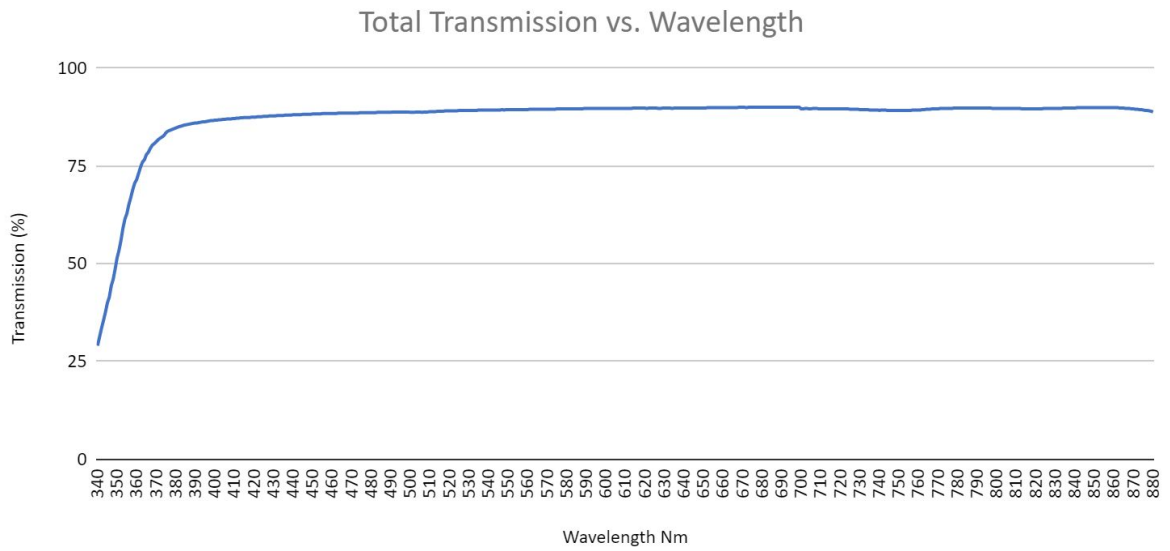
Lens Material

- Polyurethane

Properties	Values
Refractive index (Ri)	1,544 @ 650Nm
Abbe value	49,7
Total transmission	89,5%
Density	1.16 g/cm <sup>3</sup> @ 25 °C
Glass transition Temp. (Tg)	90°C

## < FIGURES

Version 3.2  
12 May 2020



Product Sample Picture  
Polyurethane, vacuum casted