



# Resin data sheet

Essential properties  
and resin characteristics

## Ultralow-fluorescent 2-photon resin

The resin features high optical transparency. Unlike standard 2PP resins, it has ultralow autofluorescence and transmission down to the 350 nm range. UpOpto obtains its final properties after a UV post-curing step. The material is non-cytotoxic, certified according to EN ISO 10993-5:2009.

### Print set-up

Objectives:  
10x, 20x, 40x

Print modes:  
vat, bottom-up



Elastic modulus	3,100 MPa
Tensile strength	80 MPa
Elongation at failure	4%
Flexural modulus	3,280 MPa
Flexural strength at 3.5%	95 MPa
Density	1.22 g/cm <sup>3</sup>
Hardness	86 shore D
HDT A at 1.8 MPa	70°C
Refractive index at 589 nm	1.512



## UpOpto transmission spectrum

The transmission spectrum of UpOpto was measured through a 200  $\mu\text{m}$  thick test specimen, both in green state and after UV post-curing. High transmission in the VIS and NIR spectral region.

