

# INVICTA DL406

## Technical Data Sheet

TDS EN\_INVICTADL406\_102019



### THE MATERIAL

INVICTA DL406 is a photosensitive material for DWS stereolithography 3D printers, developed for the realization of functional parts, aesthetic mock up, design models and applied above all in the eyewear field.

The models produced with INVICTA DL406 are resistant and smooth: it is the perfect material to produce flexible parts that request high accuracy and precision.

It is available also in white colour (INVICTA DL405).

### THE INVICTA SERIES

The Invicta series includes all the materials suitable for the production of prototypes and functional parts. These materials are extremely accurate and precise and were developed in-house by DWS.

### FEATURES

- Smooth Surfaces
- Good Level of Transparency
- High Accuracy
- High Resolution and Precision
- Long Life
- Possibility of Surface Coating and Pigmentation

### TECHNICAL FEATURES OF THE LIQUID MATERIAL

Environmental Values for Use	22°C - 27°C - max, RH 40% - 60%
Appearance / Colour	Liquid / Transparent
Density	1,02 g/cm <sup>3</sup>
Viscosity	2650 ~ 3500 mPa*s at 25°C

### TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Elongation at Break (%)	8 ~ 12
Surface Hardness (ShoreD)	80 ~ 82
Tensile Strength (MPa)	40 ~ 55
Tensile Modulus (MPa)	1700 ~ 2200
Flexural Strength (MPa)	70 ~ 90
Flexural Modulus (MPa)	1800 ~ 2000
HDT@ 0.46 MPa	44 ~ 48
Application / Use	Rapid Prototyping, Flexible and Resistant Parts, Eyewear Models

Technical specification subject to change without notice.

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