

INVICTA DL380

Technical Data Sheet

TDS EN_INVICTADL380_102019



THE RESISTANT MATERIAL

INVICTA DL380 is a photosensitive material developed for general applications, industrial design and for the realization of functional parts, aesthetic mock up and design models. The material is resistant and long lasting.

It is available also in white colour (INVICTA DL390).

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 for DWS 3D printers.

HINTS FOR THE DESIGN

INVICTA DL380 is suitable to produce functional parts. The models made of INVICTA DL380 are strong and slightly flexible.

FEATURES

- Smooth Surfaces
- High Resolution and Precision
- High Accuracy

TECHNICAL FEATURES OF THE LIQUID MATERIAL

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|------------------------------|---------------------------------|
| Environmental Values for Use | 22°C - 27°C - max, RH 40% - 60% |
| Appearance / Colour | Liquid / Black |
| Viscosity | 2000 ~ 3000 mPa*s at 25°C |
| Density | 1,08 g/cm ³ |

TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

| | |
|----------------------------|-------------------------------|
| Elongation at Break (%) | 7 ~ 14 |
| Surface Hardness (Shore D) | 82 ~ 83 |
| Tensile Modulus (MPa) | 720 ~ 1200 |
| Tensile Strength (MPa) | 25 ~ 35 |
| Flexural Strength (MPa) | 50 ~ 65 |
| Flexural Modulus (MPa) | 1050 ~ 1400 |
| HDT@0,46MPa | 45 ~ 49 |
| Application / Use | Prototyping, Functional Parts |

Technical specification subject to change without notice.

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