

INVICTA 977

Technical Data Sheet

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THE PP-LIKE MATERIAL

INVICTA 977 is a photosensitive polypropilene-like material for DWS stereolithography 3D printers, developed for high definition functional prototypes, casings and snap-fit parts. It is long lasting and resistant and slightly flexible.

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.

HINTS FOR THE DESIGN

INVICTA 977 is suitable both for thin and thick models. It is the ideal material to obtain smooth and precise transparent models.

FEATURES

- Smooth Surfaces
- High Resolution and Precision
- High Accuracy
- Slightly Flexible

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 / Light Yellow Transparent |
| Viscosity | 500 ~ 700 mPa•s at 25°C |
| Density | 1,04 g/cm ³ |

TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

| | |
|----------------------------|-------------------------------|
| Elongation at Break (%) | 2 ~ 5 |
| Surface Hardness (Shore D) | 86 ~ 88 |
| Tensile Strength (MPa) | 35 ~ 45 |
| Tensile Modulus (MPa) | 1750 ~ 2150 |
| Flexural Strength (MPa) | 80 ~ 110 |
| Flexural Modulus (MPa) | 1850 ~ 2600 |
| HDT@0,46MPa | 52 ~ 56 |
| Application / Use | Prototyping, Functional Parts |

Technical specification subject to change without notice.

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