

VITRA 430

Technical Data Sheet

TDS EN_VITRA430_102019



THE TRANSPARENT MATERIAL

VITRA 430 is a photosensitive material for DWS 3D printers, developed for high definition clear prototypes, liquid flow visualization and medical imaging. The material is suitable displaying the patient's nerves position and anatomic structure for the study and planning of surgical actions.

THE VITRA SERIES

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

HINTS FOR THE DESIGN

VITRA 430 is suitable both for thin and thick models. It is the ideal material to obtain smooth and precise transparent models.

FEATURES

- Smooth Surfaces
- Transparent
- High Resolution and Precision
- High Accuracy

TECHNICAL FEATURES OF THE LIQUID MATERIAL

| | |
|------------------------------|---------------------------------|
| Environmental Values for Use | 22°C - 27°C - max, RH 40% - 60% |
| Appearance / Colour | Liquid / Clear |
| Viscosity | 900 ~ 1400 mPa•s at 25°C |
| Density | 1 g/cm ³ |

TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

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|----------------------------|---|
| Elongation at Break (%) | 12 ~ 20 |
| Surface Hardness (Shore D) | 76 ~ 78 |
| Tensile Strength (MPa) | 30 ~ 40 |
| Tensile Modulus (MPa) | 1250 ~ 1450 |
| Flexural Strength (MPa) | 55 ~ 70 |
| Flexural Modulus (MPa) | 1200 ~ 1400 |
| HDT@0,46 MPa | 51 ~ 55 |
| Application / Use | Prototypes, Clear Functional Parts, 3D Medical Imaging, Diagnostics |

Technical specification subject to change without notice.

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