

# VITRA 413

## Technical Data Sheet

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### THE CLEAR MATERIAL

VITRA413 is a photosensitive material for DWS stereolithography 3D printers, developed for high definition functional prototypes and for general applications. It is a clear, standard acrylic material.

### THE VITRA SERIES

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

### HINTS FOR THE DESIGN

VITRA 413 is suitable both for thin and thick models. It is the ideal material to obtain smooth and precise clear samples.

### 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 / Light Yellow
Viscosity	600 ~ 900 mPa·s at 25°C
Density	1,05 g/cm <sup>3</sup>

### TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Elongation at Break (%)	2 ~ 3
Surface Hardness (Shore D)	86 ~ 88
Tensile Strength (MPa)	20 ~ 40
Tensile Modulus (MPa)	1500 ~ 2250
Flexural Strength (MPa)	60 ~ 115
Flexural Modulus (MPa)	1750 ~ 2650
HDT@1,81 MPa	48 ~ 60
Application / Use	Transparent Prototypes, Clear Functional Parts

Technical specification subject to change without notice.

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