



### THE NANOCERAMIC MATERIAL

THERMA 289 is a photosensitive nanoceramic material for DWS stereolithography 3D printers, developed for thermal resistance tests and high definition models for vulcanized rubber molds.

### THE THERMA SERIES

The Therma series includes all the materials suitable for the production of models for rubber moulding. These materials are extremely accurate and precise and were developed in-house by DWS.

### HINTS FOR THE DESIGN

THERMA 289 is suitable both for thin and thick models. It is the ideal material to make rubber moulds. Models made of THERMA 289 are extremely smooth and precise.

### FEATURES

- Smooth Surfaces
- High Resolution and Precision
- High Accuracy

### ADVICE FOR USE

A thermal post treatment of 30 minutes at 120°C is recommended in order to obtain the maximum thermal resistance.

### TECHNICAL FEATURES OF THE LIQUID MATERIAL

Environmental Values for Use	22°C - 27°C - max, RH 40% - 60%
Appearance / Colour	Liquid / Light green
Viscosity	2000 ~ 3000 mPa*s at 25°C
Specific gravity	1,37 g/cm <sup>3</sup>

### TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Elongation at Break (%)	1 ~ 3
Surface Hardness (Shore D)	90 ~ 94
Tensile Strength (MPa)	30 ~ 55
Tensile Modulus (MPa)	3100 ~ 5500
Flexural Strength (MPa)	60 ~ 90
Flexural Modulus (MPa)	2900 ~ 5550
HDT@0,46 MPa	61 ~ 120
Application / Use	Rubber Moulding Models

Technical specification subject to change without notice.

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