

# THERMA 294

## Technical Data Sheet

TDS\_EN\_THERMA294\_102019



### THE NANOCERAMIC MATERIAL

THERMA 294 is a photosensitive nanoceramic material for DWS stereolithography 3D printers, developed for thermal resistance tests, high definition models for vulcanized rubber molds and orthodontic arches for thermoformed aligners.

### 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 294 is suitable both for thin and thick models. It is the ideal material for the moulding. Models made of THERMA 294 are extremely smooth and precise.

### FEATURES

- Smooth Surfaces
- High Resolution and Precision
- High Accuracy
- Detailed Models

### 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 Blue
Viscosity	1500 ~ 2300 mPa*s at 25°C
Density	1,26 g/cm <sup>3</sup>

### TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Elongation at Break (%)	1 ~ 3
Surface Hardness (Shore D)	88 ~ 91
Tensile Strength (MPa)	20 ~ 45
Tensile Modulus (MPa)	1800 ~ 2900
Flexural Strength (MPa)	55 ~ 125
Flexural Modulus (MPa)	2000 ~ 3400
HDT@0,46 MPa	56 ~ 98
Application / Use	Rubber Moulding Models

Technical specification subject to change without notice.

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