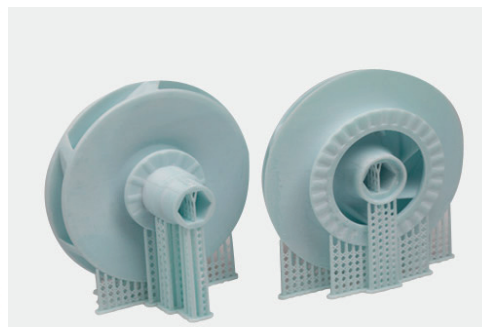
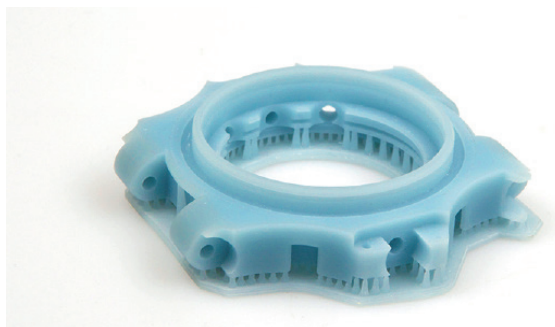


# THERMA DM220

## Technical Data Sheet

TDS\_EN\_THERMADM220\_052018



### THE NANO-FILLED CERAMIC MATERIAL

THERMA DM220 is a photosensitive material for DWS' SLA systems. It is suitable for thick and thin models. It can be used to make liquid silicones and rubber vulcanized at a maximum temperature of 180-200°C.

Models made of THERMA DM220 resin can be removed easily from the rubber mould and they can also be broken, allowing to carry out some difficult cuts that would not be possible with metal models.

### THE THERMA SERIES

The THERMA series includes all the materials suitable for rubber moulding of jewellery models, fashion accessories, design models and industrial parts. THERMA DM220, along with the materials of the Precisa Series, was developed exclusively for DWS 3D printers.

### ADVICE FOR USE

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

### TECHNICAL CHARACTERISTICS OF THE LIQUID MATERIAL

Environmental Values for Use	22°C - 27°C - max, RH 40% - 60%
Appearance / Colour	Liquid / Opaque Blue
Viscosity	12050 ~ 18050 mPa·s at 25°C
Density	1,52 g/cm <sup>3</sup>

### TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Surface Hardness (Shore D)	91 ~ 93
Flexural Strength (MPa)	65 ~ 120
Flexural Modulus (MPa)	4600 ~ 6500
Elongation at Break(%)	1 ~ 2
Tensile Strength (Mpa)	40 ~ 55
Tensile Modulus (Mpa)	4650 ~ 5600
HDT@1,81MPa	60 ~ 103
Application / Use	Rubber master models

### HINTS FOR DESIGN

THERMA DM220 is suitable for thick and thin models. It can be used to make liquid silicones and rubber vulcanized at a maximum temperature of 180-200°C.

Models made of THERMA DM220 can be removed easily from the rubber mould and they can also be broken, allowing to carry out some difficult cuts that would not be possible with a metal model.

THERMA DM220 delivers extremely smooth surfaces and exceptionally precise and sharp details.

### FEATURES

- Smooth Surfaces
- High Accuracy
- High Resolution
- No further manual finishing needed

Technical specification subject to change without notice.

DWS srl

Via della Meccanica 21 - 36016 Thiene (VI) - Italy

T: +39 0445 810810 - E: info@dwssystem.com - I: www.dwssystem.com

