

THERMA DM210

Technical Data Sheet

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THE NANO-FILLED CERAMIC MATERIAL

THERMA DM210 is a nano-filled ceramic resin developed for rubber moulding applications, including VLT, liquid silicones and vulcanized rubber at medium-low temperatures (max. 90°C).

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.

HINTS FOR DESIGN

THERMA DM210 is suitable both for thin and thick models. It can be used to make rubber moulds with liquid silicones and rubber vulcanized at a maximum temperature of 90°C. Models made of THERMA DM210 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 a metal model.

THERMA DM210 delivers extremely smooth surfaces and exceptionally precise and sharp details.

FEATURES

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

TECHNICAL CHARACTERISTICS OF THE LIQUID MATERIAL

Environmental Values for Use	22°C - 27°C - max, RH 40% - 60%
Appearance / Colour	Liquid / Opaque blue
Viscosity	1800 ~2000 mPa•s at 25°C
Density	1,26 g/cm ³

TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Surface Hardness (Shore D)	85 ~ 90
Flexural Strength (MPa)	50 ~ 135
Flexural Modulus (MPa)	1450 ~ 2800
Elongation at Break(%)	1 ~ 4
Tensile Strength (Mpa)	20 ~ 45
Tensile Modulus (Mpa)	1550 ~ 3100
HDT@1,81MPa	47 ~ 65
Application / Use	Rubber master models

Technical specification subject to change without notice.

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