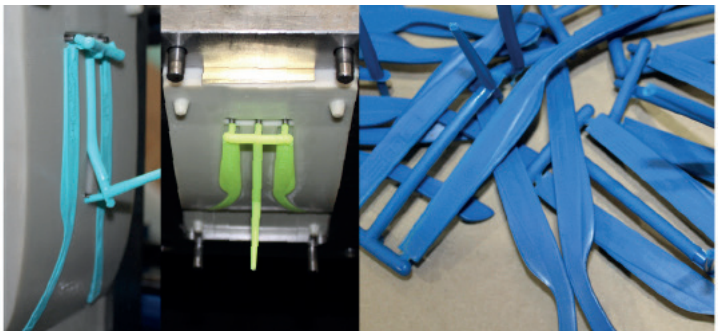
THERMA DM500

Technical Data Sheet

TDS EN_THERMADM500_052018



MATERIAL FOR INJECTION MOULDING

THERMA DM500 is a photosensitive material for DWS stereolithography 3D printers, developed for the realization with the stereolithographic technology of injection mouldings for plastic material.
The material has been developed to withstand over 200 cycles. The injected polymer can reach a maximum temperature of 220° C with up to 90 bar of closing pressure.

THE THERMA SERIES

The Therma series includes all the materials resistant to high temperature. These materials are extremely accurate, precise and were developed in-house by DWS.

FEATURES

- Smooth Surfaces
- 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 Grey
Density	1,52 g/cm^3
Viscosity	12050 ~ 18050 mPa•s at 25°C

TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Elongation at Break (%)	1 ~ 4
Tensile Strenght (MPa)	20 ~ 45
Tensile Modulus (MPa)	1550 ~ 3100
Flexural Strenght (MPa)	50 ~ 135
Flexural Modulus (MPa)	1450 ~ 2800
Surface Hardness (ShoreD)	85 ~ 90
HDT@ 1,81MPa	47 ~ 65
Application / Use	Injection Moulding

Technical specification subject to change without notice.

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