

# THERMA RD095

## Technical Data Sheet

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### THE MATERIAL FOR ORTHODONTIC ARCHES

THERMA RD095 is a nano-filled ceramic material expressly developed for the production of orthodontic models designed directly from the intraoral scanning, nowadays replacing the traditional impression taking. The resin is suitable for the production of arches for the thermoforming of aligners. The ceramic base allows to build parts with extremely smooth surfaces and really high resolution details.

### THE THERMA SERIES

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

### ADVICE FOR USE

THERMA RD095 material can be used in DWS D 3D printers like DW 020D, DW 028D, DW 029D, XFAB 3500 PD, XPRO S and XPRO Q.

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

### FEATURES

- Smooth Surface
- High Resolution
- High Accuracy

### TECHNICAL CHARACTERISTICS OF THE LIQUID MATERIAL

Environmental Values for Use	22°C - 27°C - max, RH 40% - 60%
Appearance / Colour	Liquid / Light Blue
Density	1,26 g/cm <sup>3</sup>
Viscosity	1700 ~ 2600 MPa*s at 25°C

### TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

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

Technical specification subject to change without notice.

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