

# PRECISA RD096

## Technical Data Sheet

TDS EN\_PRECISARD096\_102019



### THE MATERIAL FOR DENTAL MODELS

PRECISA RD096 is a nano-filled, gypsum-like material especially developed for the production of dental models designed directly from the intraoral scanning, nowadays replacing the traditional impression taking. The ceramic base allows to build parts with extremely smooth surfaces and really high resolution details and low maintenance costs.

### FEATURES

- Smooth Surface
- High Resolution
- Gypsum-like
- High Accuracy
- No further manual finishing needed after printing
- Available in different colours: blue, grey, ivory, yellow, green, pink and white.

### THE PRECISA SERIES

The Precisa series includes all those materials suitable for the production of models requiring high accuracy and precision. These materials are developed and produced in-house by DWS.

### TECHNICAL CHARACTERISTICS OF THE LIQUID MATERIAL

Environmental Values for Use	22°C - 27°C - max, RH 40% - 60%						
Appearance / Colour	Liquid / Blue	Grey	Green	White	Yellow	Ivory	Pink
Density (g/cm <sup>3</sup> )	1,41	1,41	1,41	1,45	1,41	1,45	1,41
Viscosity (mPa•s a 25°C)	1000 ~ 1500	1100 ~ 1600	1000 ~ 1500	1200 ~ 1700	1200 ~ 1800	1500 ~ 2300	1700 ~ 2600

### TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

	Blue	Grey	Green	White	Yellow	Ivory	Pink
Elongation at Break (%)	2 ~ 3	2 ~ 3	2 ~ 3	1 ~ 4	2 ~ 3	1 ~ 4	2 ~ 3
Hardness (Shore D)	93 ~ 94	93 ~ 94	93 ~ 94	91 ~ 92	93 ~ 94	91 ~ 92	93 ~ 94
Tensile Strength (MPa)	30 ~ 50	30 ~ 50	30 ~ 50	10 ~ 50	30 ~ 50	10 ~ 50	30 ~ 50
Tensile Modulus (MPa)	3440 ~ 4600	3440 ~ 4600	3440 ~ 4600	2000 ~ 4000	3440 ~ 4600	2000 ~ 4000	3440 ~ 4600
Flexural Strength (MPa)	65 ~ 105	65 ~ 105	65 ~ 105	55 ~ 110	65 ~ 105	55 ~ 110	65 ~ 105
Flexural Modulus (MPa)	4500 ~ 6900	4500 ~ 6900	4500 ~ 6900	2700 ~ 4900	4500 ~ 6900	2700 ~ 4900	4500 ~ 6900
HDT @ 1.81 MPa	53 ~ 75	53 ~ 75	53 ~ 75	51 ~ 65	53 ~ 75	51 ~ 65	53 ~ 75
Application / Use	Digital Impressions, Dental Models						

Technical specification subject to change without notice.

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