

RAYDENT Materials for 3D printing

RAYDENT offers various types of resins for a wide range of applications. These are also biocompatible and water washable (alcohol-free cleaning process).



RAYDENT C&B

For temporary crowns & bridges

- Biocompatible Class IIa resin
- Water washable
- Low viscosity
- High abrasion resistance
- Breaking and flexural resistant
- Natural tooth shade
- Wavelength: 405 nm

RAYDENT C&B, Water washable biocompatible resin (wavelength 405 nm) for the 3D printing of temporary crowns & bridges. The material is easy to clean and polish, and compatible with general relining composite materials.



Property	Standard	Result
Brookfield viscosity at 23°C		0.6 Pa·S
Flexural strength	DIN EN ISO 10477	> 90 MPa
Water absorption	DIN EN ISO 10477	14 µm /mm ³
Water Solubility	DIN EN ISO 10477	0.4 µm /mm ³
Biocompatibility	DIN EN ISO 10993-1	complies
Tooth shade		A2

Package Type	Model	Contents
Pouch	RCB02PW	500g (20g x 25 pouches)
Bottle	RCB10BW	1kg (1kg x 1 bottle)

For surgical guides

RAYDENT SG

RAYDENT SG, Water washable biocompatible resin (wavelength 405 nm) for the 3D printing of surgical guides. The surgical guides that enable accurate drilling and implant placement, so they best assist your implant surgeries. The material is easy to clean and polish.

- Biocompatible Class I resin
- Water washable
- Low viscosity
- Breaking and flexural resistant
- Wavelength: 405 nm

Property	Standard	Result
Brookfield viscosity at 23°C		0.35 Pa·S
Flexural strength	DIN EN ISO 20795-1	> 80 MPa
Flexural modulus	DIN EN ISO 20795-1	> 2,000 Mpa
Biocompatibility	DIN EN ISO 10993-1	complies
Color		Transparent Yellow

Package Type	Model	Contents
Pouch	RSG02PW	500g (20g x 25 pouches)
Bottle	RSG10BW	1kg (1kg x 1 bottle)



RAYDENT DM For dental models

- Low viscosity
- Prosthetic / Orthodontic / Thermoforming
- Wavelength: 405 nm

The material delivers a highly accurate dental model for various dental purposes.

Water washable type

Property	Standard	Result
Brookfield viscosity at 23°C		0.55 Pa·S
Flexural strength	DIN EN ISO 178	> 110 MPa
Color		Deep Yellow / Grey
Package		Pouch/Bottle

IPA washable type

Property	Standard	Result
Brookfield viscosity at 23°C		0.5 Pa·S
Flexural strength	DIN EN ISO 178	> 110 MPa
Color		Grey
Package		Bottle



For individual trays RAYDENT TRAY

RAYDENT Tray, Water washable biocompatible resin (wavelength 405 nm) for the 3D printing of individual trays.

The individual trays that bring a better fit than stock trays, less impression material needed, and more accurate impression because of a better fit. The material is easy to clean and polish.

- Biocompatible Class I resin
- Water washable
- Low viscosity
- Breaking and flexural resistant
- Wavelength: 405 nm

Property	Standard	Result
Brookfield viscosity at 23°C		0.3 Pa·S
Flexural strength	DIN EN ISO 178	> 110 MPa
Flexural modulus	DIN EN ISO 178	> 3,500 Mpa
Hardness(Shore D)		> 84
Biocompatibility	DIN EN ISO 10993-1	complies
Color		Transparent Blue

Package Type	Model	Contents
Bottle	RTR10BW	1kg (1kg x 1 bottle)





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Design and specifications are subject to change without notice

