



Dental Printer Resin

The innovator of integrated digital dental solutions

ABOUT US

OV Dental, as an innovator in integrated digital dental solutions, OV Dental originated from the technology of Tsinghua DME (the Department of Mechanical Engineering of Tsinghua University) and SIAT (the Precision Engineering Center of Shenzhen Institute of Advanced Technology of Chinese Academy of Sciences), focusing on the research, development, production, and application of digital dental processing equipment, digital accessories, and dental materials.

With over 15 years of experience in the development and manufacturing of high-end machine tools across multiple industries, OV Dental deeply integrates advanced manufacturing technologies from aerospace, automotive, electronics, and healthcare into the field of dentistry. By doing so, the company drives the automation and intelligent transformation of the dental manufacturing industry, delivering comprehensive digital solutions to dental institutions worldwide.



Dental Temporary Crown & Bridge Resin

Dental temporary crown & bridge resin is a biocompatible resin used for crowns, veneers, etc. It has low water absorption, high strength, less crack, and odorless during use in the mouth. color option bleaching white, A1, A2, A3, B1, B2, B3

Parameters	Standard
Tensile strength(MPa)	39.31±10%
Elongation at yield point(%)	5.91±10%
Flexural modulus (MPa)	1414.36 ±10%
Notched impact strength (J/m)	43.64 ±10%
Hardness (Shore D)	82-84
Viscosity (MPa.S)	148-248
Density (g/cm³)	1.05-1.25



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Temporary Crown & Bridge



Surgical Guide Resin

Surgical guide resin is a high clear resin with great property for dental surgery use, also high temperature resistance that able to be sterilized in autoclave, and easy to apply drilling sleeves.

Parameters	Standard
Tensile strength(MPa)	23.87±10%
Elongation at yield point(%)	5.22±10%
Flexural modulus (MPa)	481.86 ±10%
Notched impact strength (J/m)	115.2 ±10%
Hardness (Shore D)	80-88
Viscosity (MPa.S)	50-120
Density (g/cm³)	1.05-1.25



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Surgical Guide



Denture base Resin

Denture base resin has 2 options for all cases of removable denture base, for partially missing case, the flexible denture base will be the best option, both are strong and high accuracy.

Parameters	Standard
Tensile strength(MPa)	57.16±10%
Elongation at yield point(%)	7.34±10%
Flexural modulus (MPa)	2870.71±10%
Notched impact strength (J/m)	12.31±10%
Hardness (Shore D)	84-86
Viscosity (MPa.S)	220-320
Density (g/cm³)	1.05-1.25



Gingiva Mask Resin

- High precision

Odorless & non VOC
- Super low shrinkage

Not deformed for several consecutive days

Parameters	Standard
Tensile strength(MPa)	0.48±10%
Elongation at yield point(%)	46.16±10%
Flexural modulus (MPa)	-
Notched impact strength (J/m)	-
Hardness (Shore A)	46-55
Viscosity (MPa.S)	50-100
Density (g/cm³)	1.05-1.25



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Gingva Mask



Pro Model Resin

- Non deformation
- Low odor and no toxic
- Anti-scratch & non brittle
- Extremely low shrinkage rate
- IPA clean or water washable
- Color: Grey, Almond, Orange Yellow, Skin, White, Light Grey
- Perfect for all dental model cases like orthodontic, restoration and implant etc

Parameters	Standard
Tensile strength(MPa)	25.9±10%
Elongation at yield point(%)	5.61±10%
Flexural modulus (MPa)	616.4±10%
Notched impact strength (J/m)	192.6±10%
Hardness (Shore D)	80-85
Viscosity (MPa.S)	250-450
Density (g/cm³)	1.05-1.25



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Pro Model



Ortho Model Resin

- High detail

IPA clean or water washable

High temperature resistance 140°C

Able to be pressed a few times by thermoforming machine
- Super low odor & non VOC

Suitable for any orthodontic case

Parameters	Standard
Tensile strength(MPa)	37.88±10%
Elongation at yield point(%)	3.09±10%
Flexural modulus (MPa)	1699.7±10%
Notched impact strength (J/m)	72±10%
Hardness (Shore D)	80-88
Viscosity (MPa.S)	250-400
Density (g/cm³)	1.05-1.25



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Ortho Model



Dental Casting Resin

Dental casting resin is a dental 3D resin to make crown or frame casting for any type of dental metal.

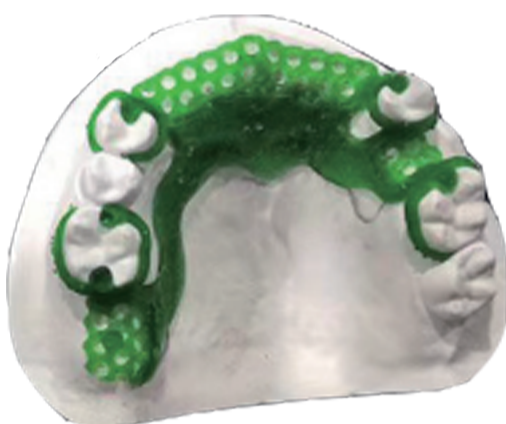
No expanding during the burn out cycle,
you will get high precision 3D prints.

Parameters	Standard
Tensile strength(MPa)	133.97±10%
Elongation at yield point(%)	6.22±10%
Flexural modulus (MPa)	811.08±10%
Notched impact strength (J/m)	113.97±10%
Hardness (Shore D)	85-88
Viscosity (MPa.S)	50-170
Density (g/cm ³)	1.05-1.25



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Dental Casting



THE INNOVATOR OF INTEGRATED DIGITAL DENTAL SOLUTIONS



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