

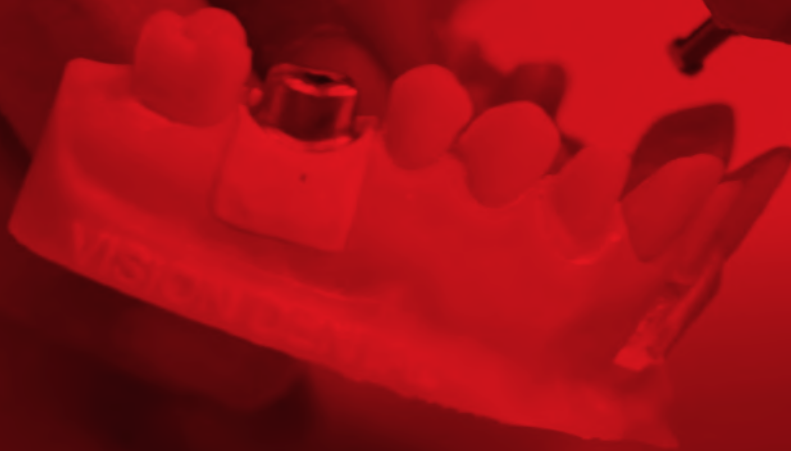
POWERRESINS



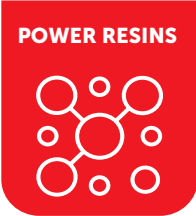
Professional Materials for all Dental 3D Printers!



3D Printing Resin for **Dental Production!**



Compatible 3D Printers with Power Resins for Dental

POWER RESINS 							
		Burn	Model	SG	Denture	Temp	Gingiva
LCD Printers	NovaFab Vega	✓	✓	✓	✓	✓	✓
	Phrozen Shuffle	✓	✓	✓	✓	✓	✓
	Anycubic Photon	✓	✓	✓	✓	✓	✓
	Wanhao D7	✓	✓	✓	✓	✓	✓
	Uniz Slash	✓	✓	✓	✓	✓	✓
	Zortrax Inkspire	✓	✓	✓	✓	✓	✓
	MakeX	✓	✓	✓	✓	✓	✓
	Structo3D DentaForm	✓	✓	✓	✓	✓	✓
DLP Printers	NovaFab Mega	✓	✓	✓	✓	✓	✓
	RapidShape	✓	✓	✓	✓	✓	✓
	Asiga	✓	✓	✓	✓	✓	✓
	MiiCraft	✓	✓	✓	✓	✓	✓
	Evodent	✓	✓	✓	✓	✓	✓
	EnvisionTec	✓	✓	✓	✓	✓	✓
	Ackuretta	✓	✓	✓	✓	✓	✓
	W2P	✓	✓	✓	✓	✓	✓
	SprintRay MoonRay	✓	✓	✓	✓	✓	✓
	Microlay	✓	✓	✓	✓	✓	✓
	FlashForge Hunter	✓	✓	✓	✓	✓	✓
	Bego Varseo	✓	✓	✓	✓	✓	✓



BURN RESIN

Produce Cr-Co metal or IPS e-max press all types of crowns, bridges, inlays, onlays and frameworks

PowerResins Burn is a special 100% ash-free castable resin that is formulated for perfect quality in dental Cr-Co metal casting and e-max press.

- 100% ash-free burnout for dental casting
- Suitable for e-max press lost wax casting
- Perfect casting surface quality with minimum post-process
- No investment cracks or expansion
- Compatible with dental burnout cycle and dental investments brands
- Works with any type of DLP or LED/LCD 3d printer
- Fast curing properties for fast printing



100% ASH-FREE CASTABLE

Specially made for direct casting. Evaporates with heat leaving no ash.



EASY TO CAST

Easy to cast with investments such as Sherafine, Polyvest, Siladent, Bego, Nanovest or others



E-MAX PRESS

Suitable for Emax press using any investment



PERFECT METAL CASTING

Easily do metal casting without damaging the investment

Tensile strength	14.4 MPa
Flexural strength	20.7 MPa
Flexural modulus	472 MPa

Shore hardness	70.5 D
Density	1.1 g/cm ³ at 23°C
Viscosity	490 - 510 mPa.s at 23°C

› E-max Press Crown



› 6 Units Bridge



› Inlays-Onlays Application



› Partial Frameworks





MODEL RESIN

PowerResins Model is a special ceramic based 3d printer resin for dental model printing. It was specifically developed in order to have high dimensional stability and a special texture for dental models processing. Model Resin can be used for any type of DLP or LED curing 3d printer.

- Suitable for high accuracy dental model printing
- Ceramic based smooth surface with hard finish for dental model post-processing
- Special opaque/mat texture color in order to ease technician eyes during long time processes
- Fast curing properties for fast printing



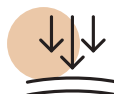
SMOOTH SURFACE

Print any models with perfect smooth quality and accuracy



VACUUM FORMING

High accuracy and pressure resistant for vacuum forming of aligners.



PRESSURE RESISTANT

Resist to high pressure and enables producing aligners with vacuum forming.



ACCURATE

Provide accurate print with details and can be printed below 10 micron and providing 0.1 mm thickness.

Tensile strength 26.2 MPa

Flexural strength 99 MPa

Flexural modulus 2640 MPa

Shore hardness 76.75 D

Density 1.1 g/cm³ at 23°C

Viscosity 200 - 225 mPa.s at 23°C

› **Model with Implant Analog**



› **Model with Dies**



› **Model with Clear Aligner**



› **Study Model**





DENTURE RESIN

Powerresins Denture is a biocompatible resin (Class IIa), developed for the 3d printing and manufacturing of long term removal dental dentures. It has high process reliability thanks to high initial hardness and exceptional mechanical properties.

- Biocompatible and safe to use in patient mouth as long term removal denture
- Exceptional mechanical properties
- Colour stability, odorless and tasteless
- MMA-free, Class IIa biocompatible resin

**PREMIUM MMA
FREE FORMULA**



BIOCOMPATIBLE

Biocompatible and safe to use in mouth. Produced from biocompatible raw material used in dental applications.



MAXIMUM MECHANICAL FLEXURAL

Displays maximum mechanical flexural and tensile strength without becoming brittle



GOOD COLOR & CLARITY

Allows you to work more easily with skin color and contains no pigment solution



CERTIFIED PRODUCT

Its reliability has been confirmed by CE Class 2a certification.

Tensile strength 41.48 MPa

Flexural strength 114 MPa

Flexural modulus 2890 MPa

Shore Hardness 83.6 D

Density 1.12 g/cm³ at 23°C

Viscosity 2300 - 2400 mPa.s at 23°C



DLP

LCD



TEMP RESIN

Temp resin is a biocompatible resin for patient's in-mouth use as temporary teeth. It is easily processed and cleanable material that is compatible with natural dental aesthetics. This resins comes in Light (A1, B1) and Medium (A2, A3) colour palettes.

- Exceptional breakage and high wear resistance for daily usage
- Available in Light (A1, B1) and Medium (A2, A3) colour palettes
- Exceptional breakage and high wear resistance for daily usage
- You can apply composite materials on top of printed material
- No smell and taste

**PREMIUM MMA
FREE FORMULA**



BIOCOMPATIBLE

Biocompatible and safe to use in mouth. Produced from biocompatible raw material used in dental applications.



HIGH WEAR RESISTANCE

Safe to handle. Does not contain any hazardous solvent or dangerous monomer.



LOW SHRINKAGE

This resin has low shrinkage and will not change shape after post-curing



CERTIFIED PRODUCT

Its reliability has been confirmed by CE Class 2a certification.

Tensile strength 66.55 MPa

Flexural strength 126 MPa

Flexural modulus 2980 MPa

Shore Hardness 85.7 D

Density 1.14 g/cm³ at 23°C

Viscosity 2500 - 3000 mPa.s at 23°C

› Unpolished Temporary Teeth



› Unpolished Temporary Teeth



› Polished Temporary Teeth



› Polished Temporary Teeth



DLP

LCD



SG RESIN

SG is a biocompatible CE Class 1 resin, developed for the 3d printing of Surgical Guides for implant surgery use. This material has very good mechanical properties and after printing, it is easy to insert metallic drill sleeves.

- Biocompatible and safe use in implant surgery
- Can also be sterilized using standard autoclave protocols
- Transparent, odorless and tasteless
- MMA-free, CE Class 1 biocompatible resin

**PREMIUM MMA
FREE FORMULA**



BIOCOMPATIBLE

Biocompatible and safe to use in mouth. Produced from biocompatible raw material used in dental applications.



PRECISION DRILLING

It has been specially developed for performing precise surgical implant procedures.



PRESSURE RESISTANT

Resist to high pressure, suitable for surgical guide during dental implant surgery



CERTIFIED PRODUCT

Its reliability has been confirmed by CE Class 1 certification.

Tensile strength	41.1 MPa
Flexural strength	104.2 MPa
Flexural modulus	2800 MPa

Shore Hardness	83.6 D
Density	1.1 g/cm ³ at 23°C
Viscosity	520 - 540 mPa.s at 23°C



DLP

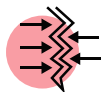
LCD



GINGIVA RESIN

PowerResins GINGIVA resin is a flexible resin to print soft gingival masks for the model prints. It has a high dimensional stability. Gingiva prints can be easily trimmed to reach optimal fitting for the implant models. It is a natural gingiva color.

- Tear-resistance gingival masks
- Easily trimmed
- High dimensional stability



TEAR-RESISTANCE

Gingiva prints can be easily trimmed to reach optimal fitting for the implant models.



FLEXIBLE RESIN

It is produced to imitate the gingiva with its flexible structure.



NATURAL COLOR

Allows you to work more easily with skin color and contains no pigment solution



SAFE & NOT SMELLY

Safe to handle. Does not contain any hazardous solvent or dangerous monomer.

Tensile strength 2.2 MPa

Flexural strength 1.1 MPa

Elongation at break 24,5 %

Shore Hardness 81

Density 1.104 g/cm³ at 23°C

Viscosity 1145 mPa.s at 23°C





> Who are We?

R&D Center for Resin and 3D Printers

Founded in 2013, our company specializes in manufacturing high precision 3d printers and photopolymer dental resins. Our R&D center in Istanbul combines know-how of biomedical dental materials with 3d printer technologies. Furthermore, we have developed excellent castable resin with 100% ash-free burnout for the dental and jewelry industry.

High-End Professional 3D Printers

Our 3D printers are specifically developed for dental and jewelry professionals in order to achieve the highest accuracy and precision.

Global Reach

Our resins and 3d printers are used in over 40 countries. We are pleased to service customers globally with our 4 branch offices, sales offices in Istanbul and Dubai and our global reseller network. We also ship resin globally from our website powerresins.com

Post-Printing Process

Products printed in 3D digital dentistry reach the desired mechanical values only after they are thoroughly cleaned and cured. With these devices you can do post-printing operations easy, fast and clean.

DentaWash

3D Printed Parts Washer

**Quick and powerful
washing performance!**



DentaCure

3D Printed Parts Washer

**Fast curing machine
for 3D Printed object
performance!**



POWERRESINS



powerresins.com

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Would you like to have some
sample prints?

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