

MAZIC[®]D MODEL



3D Printing Material for Dental Model

MAZIC[®]D Model is photopolymer acrylate type resin for printing dental models by DLP printer. Printed model can be used for any work that uses the traditional gypsum model. Color and opacity makes visual detail of surface more clearly. High strength and low shrinkage make MAZIC[®]D Model suitable for printing high accuracy dental model.

Properties		Value
Color	Resin	Opaque yellow
	Final	Opaque yellow
Brookfield viscosity(25°C) (ISO 2555)		800~900 cP
Flexural strength (ISO 20795-1)		≥ 80 MPa
Flexural modulus (ISO 20795-1)		≥ 1,700 MPa
Shore hardness (ASTM D2240)		D80~85
Volume		250g / 500g / 1kg

MAZIC[®]D SG



3D Printing Material for Implant Surgical Guide

MAZIC[®]D SG is a photopolymer acrylate type resin for printing dental surgical guides by DLP printers. Printed surgical guide is used for guiding course and direction of implant and surgery equipments.

Properties		Value
Color	Resin	Transparent green
	Final	Transparent orange
Brookfield viscosity(25°C) (ISO 2555)		800~900 cP
Flexural strength (ISO 20795-1)		≥ 80 MPa
Flexural modulus (ISO 20795-1)		≥ 1,500 MPa
Shore hardness (ASTM D2240)		D80~90
Biocompatibility (ISO 10993-1)		Affirmative
Autoclave (121°C/30min)		Available
Volume		250g / 500g / 1kg

MAZIC[®]D MODEL ORTHO



3D Printing Material for Orthodontic Model

MAZIC[®]D Model Ortho is photopolymer acrylate type resin for printing orthodontic models by DLP printer. Printed dental orthodontic model can endure high temperatures and pressures it can be used in any kind of dental vacuum moulding machine.

Properties		Value
Color	Resin	Opaque Green
	Final	Opaque Orange
Brookfield viscosity(25°C) (ISO 2555)		800~900 cP
Flexural strength (ISO 20795-1)		≥ 80 MPa
Flexural modulus (ISO 20795-1)		≥ 1,500 MPa
Shore hardness (ASTM D2240)		D80~90
Thermoforming		Available
Volume		250g / 500g / 1kg

MAZIC[®]D TEMP



3D Printing Material for Crowns & Bridges

MAZIC[®] D Temp is photopolymer acrylate type resin for printing crowns and bridges by DLP Printer. Output is easy to surface process and polish. Balance between opacity and translucency of printed crowns and bridges is appropriate to assimilate with surrounding teeth.

Properties		Value
Brookfield viscosity(25°C) (ISO 2555)		1100~1300 cP
Flexural strength (ISO 10477)		≥ 50 MPa
Flexural modulus (ISO 10477)		≥ 1,500 MPa
Shore hardness (ASTM D2240)		D80~90
Water sorption (ISO 10477)		≤ 40 µg/mm ³
Water solubility (ISO 10477)		≤ 7.5 µg/mm ³
Volume		250g / 500g / 1kg
Shade		BL, A1, A2, A3, TR

MAZIC[®]D SPLINT [COMING SOON]



3D Printing Material for Splints & Temporary Use
MAZIC[®]D Splint is photopolymer acrylate type biocompatible resin for printing splints and retainers by DLP printer.

Properties		Value
Color	Resin	Clear-transparent
	Final	Clear-transparent
Brookfield viscosity(25°C) (ISO 2555)		800~1,200 cP
Flexural strength (ISO 20795-2)		≥ 50 MPa
Flexural modulus (ISO 20795-2)		≥ 1,500 MPa
Max. stress intensity factor (ISO 20795-2)		≥ 1.1 MPam ^{1/2}
Total fracture work (ISO 20795-2)		≥ 250 J/m ^{1/2}
Residual MMA (ISO 20795-2)		≤ 5.0 %(w/w)
Water sorption (ISO 20795-2)		≤ 32 µg/mm ³
Water solubility (ISO 20795-2)		≤ 5.0 µg/mm ³
Volume		250g / 500g / 1kg

※ Not certified yet.

MAZIC[®]D CAST



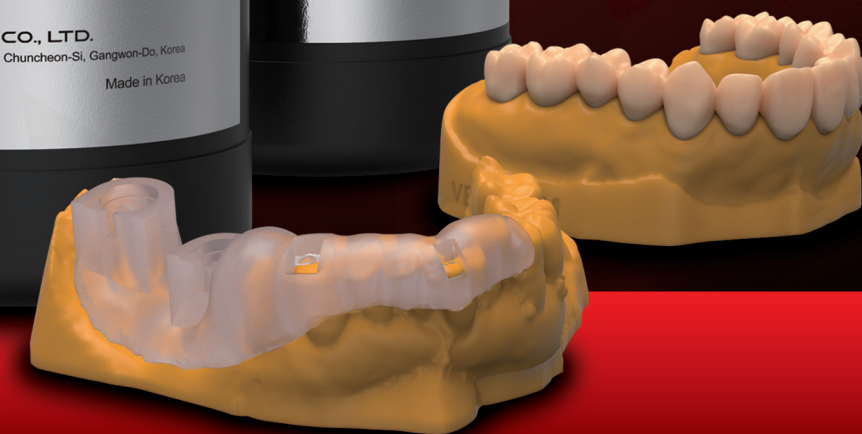
3D Printing Material for Castable Parts

MAZIC[®]D Cast is photopolymer acrylate type resin printing materials replacing conventional casting wax for metal casting process by DLP printer. It features fast production speed, low shrinkage and high accuracy of output.

Properties		Value
Color	Resin	Opaque red
	Final	Opaque red
Brookfield viscosity(25°C) (ISO 2555)		200~300 cP
Flexural strength (ISO 20795-1)		≥ 50 MPa
Flexural modulus (ISO 20795-1)		≥ 1,200 MPa
Burnout condition		850°C 45min
Cauterisation residual ash content		< 0.1%
Volume		250g / 500g / 1kg



MAZIC[®]D Series 3D PRINT GUIDE



VERICOM
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Head Office / Factory : 48, Toegyegongdan 1-gil, Chuncheon-si, Gangwon-do, Korea Sales Office
Sales office / R&D Center : 15, Jeonpa-ro 62beon-gil, Manan-gu, Anyang-si, Gyeonggi-do, Korea
Tel +82-31-441-2881 Fax +82-31-441-2883 Website www.vericom.co.kr Email vericom@vericom.co.kr / overseas@vericomdental.com

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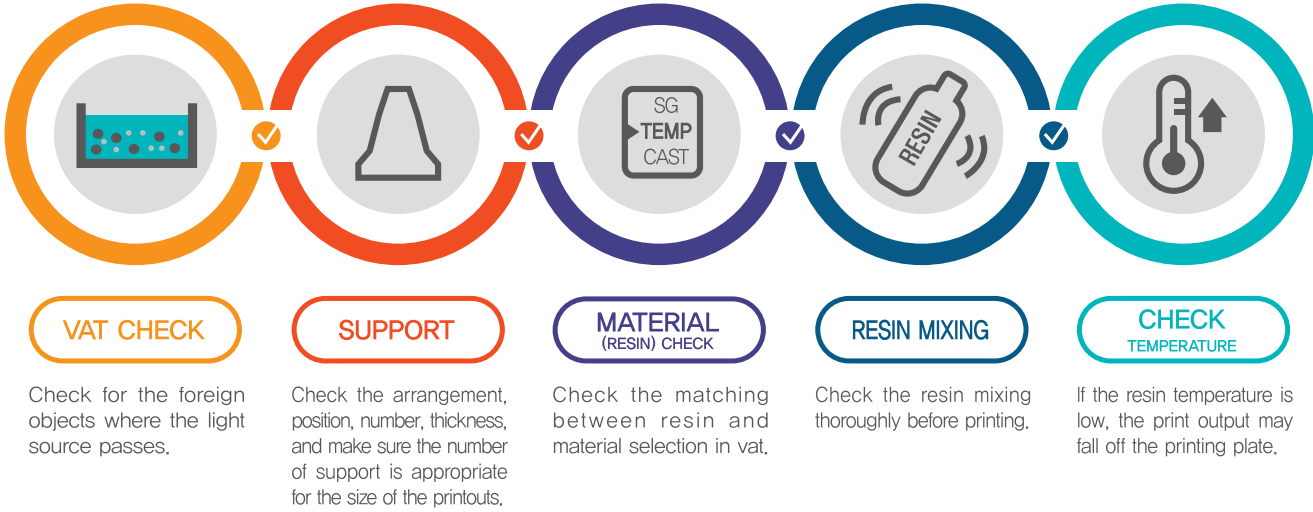
MAZIC[®]D 3D Print Guide

MAZIC[®]D Feature

*Consumption of 3D resin may differ depending on the user's work experience and model design.

Material Type	Indication	Color (Post-curing)	Feature	Resin consumption (Based on 1 kg)
TEMP	Temporary prosthesis	BL, A1, A2, A3, TR	<ul style="list-style-type: none">High Degree of Accuracy, PrecisionHigh Mechanical Properties with BiocompatibilityVery Low Water Sorption & Water Solubility from Excellent Hydrophobicity	[Implant Molar single case (Support includ)] About 0.8~1g (About 1,000ea)
SG	Surgical Guide	Transparent Orange	<ul style="list-style-type: none">Biocompatible with High Strength & Accuracy suitable for Dental Surgical GuideFast & Easy Printing with High AccuracyCan be Sterilized without Loss of Material Properties	[Full arch case] About 20~25g (About 40ea)
MODEL	Model	Opaque Yellow	<ul style="list-style-type: none">High Degree of Accuracy, PrecisionFor Detailed Master Prosthodontic & Orthodontic ModelsVisual Details with Ideal Surface (Color & Opacity)	[Full arch model] About 10~20g (About 50ea)
MODEL ORTHO	Model Ortho	Opaque Orange	<ul style="list-style-type: none">For the Construction of Thermoformed Dental Appliances such as Clear AlignerFast & Easy Printing with High AccuracyHigh Stability under Heating & Vacuum Conditions	[Orthodontics model] About 70~80g (About 13ea)
CAST	Casting Wax Pattern	Opaque Red	<ul style="list-style-type: none">High Degree of Accuracy, Precision with Exceptional Surface FinishTailored to the Casting with MAZIC[™] Vest HS (Phosphate-bonded Investment Material)Enable Both Shock Heating & Conventional Heating Process	[Single cap (Support includ)] About 0.5~1g (About 1,000ea)
SPLINT [COMING SOON]	Splint	Clear Transparent	<ul style="list-style-type: none">High strengthBiocompatible	

Checklist before printing (Recheck on failure)



MAZIC[®]D Compatibility List

●Compatible ▲In progress

Device Name	Temporary	SG	Model	Model Ortho	Cast	Device Name	Temporary	SG	Model	Model Ortho	Cast
 MAZIC [®] D-P500	●	●	●	●	●	 Uniz-Slash+	●	●	●	●	▲
 Flashforge Hunter / P100	●	●	●	●	●	 Uniz-Slash2	▲	●	●	▲	▲
 Carima-IM2	▲	●	▲	●	●	 Dazz 3D L120	▲	●	●	▲	▲
 Veltz 3D-D2	●	●	●	●	▲	 Dentis ZENITH D / U	●	●	●	▲	●
 Phrozen shuffle K Edition	▲	●	▲	▲	▲	 Asiga-MAX UV (385um)	●	●	●	●	▲
 Phrozen Sonic	●	●	●	▲	●	 Formlab Form2	●	▲	▲	▲	▲
 BIO 3D W11	●	●	●	●	●	 Nextdent 5100	●	●	▲	●	▲
 WANHAO-D7	▲	●	▲	▲	▲	 Kulzer CaraPrint 4.0	▲	●	●	●	▲
 Shinwon-Dental karv	●	●	▲	●	▲	 ANYCOBIC PHOTON S	▲	▲	▲	▲	●

*Please contact us for compatibility with other printers not listed above.