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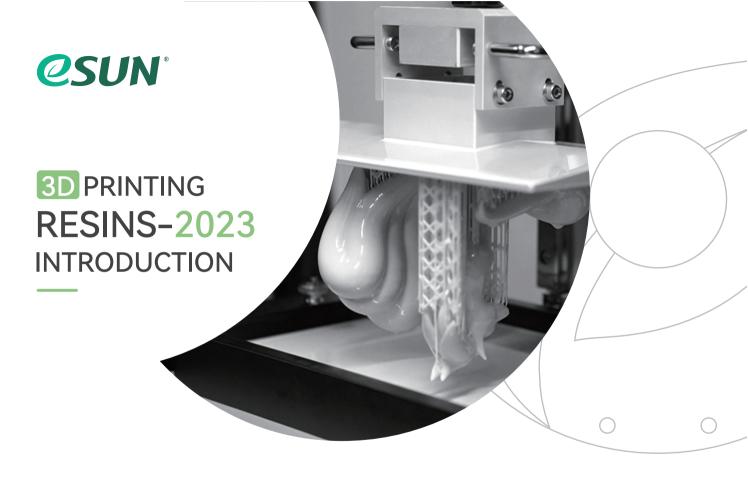
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 Website: www.esun3d.com



www.esun3d.com

GENERAL RESINS

02	MA100	Matte	Resir
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- eResin-PLA Pro
- S200 Standard Resin
- PM200 PMMA Like Resin
- PW100 PLA Water Washable Resin

ENGINEERING RESINS

- A200 eResin-ABS Pro
- PA100 Nylon-Like Resin
- High Temp Resin
- Hard-Tough Resin
- eResin-eLastic

DENTAL RESINS

12 TC100 Temporary Crown & Bridge Resin

01

- GM100 Gingiva Mask Resin
- WO100 Water Washable Ortho Model Resin
- DM100 Dental Restoration Model Resin
- OM100 Ortho Model Resin
- SG100 Surgical Guide Resin
- CT100 Custom Tray Resin
- DC100 Dental Cast Resin

Certificates



Features

High Precision

Matte Texture

Low Viscosity

MA100 Matte Resin

MA100 is a matte resin with extremely high detail reproduction, and its high molding precision allows for the faithful reproduction of figurines and models. Its matte texture enhances the expressiveness of figurine models, and its low viscosity and good flowability make it easy to print. It also possesses a certain level of toughness, suitable for various 405nm wavelength LCD/DLP devices.



- Figurines
- Education
- Decorative parts





eResin-PLA Pro

Base material comes from plant extract PLA. Excellent balance of strength and toughness. High Precision, highly detailed printed object. High compatibility, suitable for color and mono screen, large and small size printers.







- Excellent balance of strength and toughness
- Safe and low odor
- High Precision and Low Shrinkage
- Environmentally Friendly

Application

- Education
- Mechanical equipment
- Garage Kit
- Decorations





Cost effective macaron color resin. It has high printing precision. The printed surface is delicate, small details are clearly visible. It has variable macaron colors. Compatible with color and mono screen, large and small size printers.



Features

- Macaron and stunning Color
- Fast Curing and Excellent Fluidity
- High Precision and Low Shrinkage

- Mechanical equipment
- Automotive
- Electronic
- Pearls and jewels





eSUN clear 3d printer resins have excellent post-processing transparency after grinding and polishing, and spraying with UV high-transmitting oil. With high toughness and specific impact resistance, transparent resin 3d printing is more suitable for shape and assembly verification. Moreover, the clear resin has excellent internal transparency and can be used to verify beautiful transparent concept models.



Features

- High transparency
- Anti-yellowing
- High toughness



Application

- Optics Illumination
- Hearing aid
- Mechanical







PW100 PLA Water Washable Resin

Water washable resin. Base material comes from plant extract PLA. The resin has high molding accuracy and excellent details. After printing, the printed object can be cleaned by water instead of alcohol. Such property make it much safer to use. The smell is low, make people feels better when printing. Low viscosity, make the resin easy to flow. Compatible with color and mono screen, large and small size printers.







Features

- Water Washable with Low odor
- Balance of strength, toughness and rigidity.
- High-precision

- Education
- Ornament





07



A200 eResin-ABS Pro

This is an upgraded ABS-like high-strength engineering resin with the physical properties of ABS material. Its high strength, impact resistance and low shrinkage make it ideal for printing protective plastic housings.







- Strength
- Drillable holes
- Impact resistant
- Low shrinkage

Application

- Engineering
- Manufacturing
- Garage Kit





PA100 Nylon-Like Resin

PA100 Nylon-Like Resin is a high-strength resin material developed by eSUN for engineering and manufacturing applications. It offers excellent toughness and impact resistance, capable of folding at 180 degrees without fracturing. It maintains a powder-free operation at high speeds, making it suitable for joint applications. It exhibits excellent durability and long-term stability, with low shrinkage, good assembly performance, high precision, and a quality surface finish.

Color



Features

- Excellent Toughness and Impact Resistance
- Capable of Folding at 180 Degrees without Fracturing
- Maintains a Powder-Free Operation at High Speeds
- Excellent Durability and Long-Term Stability

- Fixtures
- Jigs
- Aerospace models
- Industrial parts







High Temp Resin

High Temp Resin has the characteristics of high hardness, high strength, high modulus, and high precision. The resin heat resistance is good; Resistance to long-term heating at 120 ° C or boiling at 100 ° C.The fully cured high temperature resin material has excellent mechanical properties, weather resistance and temperature resistance.







- Heat resistance
- High precision
- High hardness
- High strength



- Mechanical
- Dental
- Automobile





Hard-Tough Resin

Strong and tough resin. Can be used for engineering purpose. Much higher impact resistance than normal resins. Excellent mechanical properties. Printed object is tough and mechanically drillable. Compatible with most printers.









- Automotive
- Mechanical





Features

High toughness

• High impact resistance

Strong and durable





eResin-eLastic

High elongation at break, good elasticity, tear resistance, tensile, bending and compression, quick rebound, a certain wear resistance. Compared with eResin-Flex, the viscosity of elastic resin is greatly reduced to ensure release and molding.







- Good elasticity
- High toughness
- Tear resistance
- Low hardness

Application

- Mechanical
- Automobile
- Electronic appliances
- Conveying pipeline





TC100 Temporary Crown & Bridge Resin

TC100 resin specially for temporary crown and bridge models. Mimics natural teeth texture and color. Odorless. tasteless after cleaning and post-curing. High surface hardness (>80D) with strong scratch resistance post-curing.





- Temporary crowns
- Temporary bridge
- Diagnosis of denture







- The natural appearance of teeth
- High molding Precision
- High surface hardness (>80D)
- Good scratch resistance





GM100 Gingiva Mask Resin

Utilizing 3D printing, we can create flexible artificial gums for digital oral medicine. When combined with materials used in restoring dental models, we achieve 3D replication of deficient gingival fragments. These artificial gums closely mimic natural gingival color, appearance, and touch. The material boasts superior elasticity and tear resistance.







- Natural Color
- More realistic
- Good tear resistance

Application

Gingiva model





- Washable
- High molding accuracy
- High temperature resistant
- High surface hardness (>80D)

WO100 Water Washable Ortho Model Resin

Special water washable resin material for dentistry, suitable for 3D printing high temperature resistant dental models. The model surface is smooth, with high detail reproduction and high molding accuracy. Water washable ortho model resin has high temperature resistance, the model can withstand the high pressure impact of the hot press molding instrument, and the deformation volume is small under high temperature condition; high surface hardness (>83D).

Color





Orthodontic models









DM100 Dental **Restoration Model Resin**

Smooth surface, fine texture, high detail reproduction, accuracy; DM100 Dental Restoration Model Resin: low shrinkage (<0.5%), solid dimensional stability; High surface hardness (>80D), scratch resistance after curing; Strong with toughness—resists impact; High dimensional stability, slight deformation in 7-day preservation, ensuring extraction accuracy.







- High precision
- Good model texture
- High dimensional stability
- FDA certification



Application

- Dental model
- Garage kit





Dental Resins



OM100 Ortho Model Resin

Ortho model resin is special dental resin material. The orthodontic models' surface are smooth, with high detail reproduction and high molding accuracy. With high-temperature resistance, the model printed by dental resin can withstand the high-pressure impact of the hot press molding instrument, and the deformation volume is small under high-temperature conditions.

With high surface hardness (>83D), ortho model resin is suitable for 3D printing high temperature resistant dental models(such as orthodontic models).

Color • •







Application

Orthodontic models





High molding accuracy

• High temperature resistant

Features

Washable



SG100 Surgical Guide Resin

Dental resin material, suitable for printing implant guide plate. The model has smooth surface and clear, high detail and precision. Surgical guide resin has good strength and toughness, with impact resistant; High temperature sterilization, wet disinfection.



Color



- Clear and transparent surface
- Good strength and toughness
- High molding precision
- High temperature sterilization, wet disinfection

Application

- Cutting gum guide
- Grind bone plate
- Implantation guide plate
- Functional retainer





Features

High-precision molding

Good strength and toughness

CT100 Custom Tray Resin

For personalized function tray customization. The model has a smooth surface, high detail reduction, and high-precision molding; good strength and toughness, with a certain impact resistance; suitable for all custom impression materials.

Color





- Personalized function tray
- Function tray
- Resin base plate







DC100 Dental Cast Resin

Dental resin for 3D printing crown wax-ups, bridge wax-ups and stent wax-ups. For casting blank production in precision casting technology. No residue after burning in mass casting: The model has a smooth surface, high detail reduction. and high-precision molding. The casting resin meet the needs of metal casting processes for movable stents, post cores, and inner crowns, as well as all-ceramic crowns. veneer, inlay and other casting process needs.



Features

- No combustion residues
- High-precision molding
- Fine casting



Application

- Crown wax-up
- Bridge wax-up
- Stent wax-up
- Partial dentures





ESUN Certificates





DIN CERTIFICATION

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EN71-3 CERTIFICATION

SGS





IOS9001 CERTIFICATION

FC TEST REPORT

FCC CERTIFICATION



SWOTTERS WORKER (HA. (A)





EMC CERTIFICATION

Certification of eSUN

3D PRINTING PHOTOPOLYMER RESINS PROPERTIES TABLE

3D Printing Photopolymer Resins	eResin-PLA	eResin-PLA Pro	Standard V Resin	/ater Washable Resin	eResin-WS Pro	Hard-Tough Resin	Precision Model Resin	eResin-WSPR	3D Printing Photopolymer Resins	Castable Resin for Dental	Castable Resin for Jewelry	Dental Model Resin	eResin-Flex	eResin-Elastic	eResin-PMMA LIKE	High Temp Resin (100°C)
Viscosity(mPa·s)	100-270	200-300	170-200	110-180	90-150	200-300	170-270	140-160	Viscosity(mPa·s)	100-150	100-150	150-300	600-1400	500-900	300	180-220
Density(g/cm³)	1.07-1.10	1.09-1.10	1.08-1.13	1.10-1.14	1.11-1.13	1.08-1.12	1.13-1.16	1.11-1.12	Density(g/cm3)	1.05-1.12	1.05-1.12	1.05-1.25	1.02-1.05	1.08-1.10	1.05-1.15	1.09-1.10
Tensile Strength(MPa)	24-55	37-48	46-67	19-46	28-52	30-60	36-62	25-35	Tensile Strength(MPa)	42-62	42-62	42-62	4-10	4-5	58	70-85
Elongation at Break(%)	24-37	25-28	28-36	17-30	23-29	35-52	25-40	20-35	Elongation at Break(%)	11-20	11-20	10-20	100-350	250-350	10	35-40
Flexural Strength(MPa)	25-61	36-49	46-72	15-50	34-47	30-75	39-63	30-42	Flexural Strength(MPa)	49-58	49-58	59-70	1	/	30	95-105
IZOD Impact Strength(J/m)	27-40	32-36	14-42	37-97	33-39	40-110	30-40	35-40	IZOD Impact Strength(J/m)	44-49	44-49	44-49	/	/	15	/
Surface Hardness(Shore D)	75-82	78-80	78-82	74-82	77-83	75-81	81-86	80	Surface Hardness(Shore D)	80	60	80	60-90A	70A	70	82-84
Strength (0-10)	6	6	8	6	6	8	6	6	Strength (0-10)	8	8	8	2	2	6	10
Toughness (0-10)	7	7	7	7	7	9	7	7	Toughness (0-10)	7	7	7	10	10	6	8
Print Thin Walls (0-10)	8	8	9	8	8	8	7	8	Print Thin Walls (0-10)	9	9	8	4	4	8	8
Dimensional Accuracy (0-10	0) 7	9	7	8	8	7	9	9	Dimensional Accuracy (0-10	0) 8	8	8	6	6	8	7
Print Speed (0-10)	8	6	8	8	2	8	7	2	Print Speed (0-10)	4	4	8	4	2	4	8