

405 resin

Dental resin

LCD/DLP 3D printed dental mold photosensitive resin





Biodegradable



Good liquidity



Finished surface is smooth



High adaptability



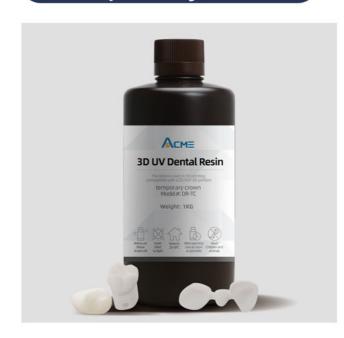
Low shrinkage

- A 3D UV printing resin with low skin irritation and low skin allergy UV curing
- · Advantages of digital dentistry applications: high precision, high production efficiency, low cost
- · Safe and environmentally friendly, easy to operate
- · Simple process and low cost
- Short time period and high productivity
- Digital manufacturing, shortened technician growth cycle
- Fast and low-volume customization
- Extremely precise and unaffected by complex shapes

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Temporary crown



DR-TC Model Maximum Force (KGF) 127.30±10% Tensile strength (MPa) 30.00±10% Deformation of maximum force 3.65±10%

point (mm)

Yield point elongation(%) 6.36±10%v Elongation at break(%) 6.45±10% Maximum bending strength (MPa) 30.98±10% Flexural modulus of elasticity (MPa) 927.13±10% Shore hardness (D) 80~90 Impact strength(j/m) 32±10% Tensile modulus (MPa) 490.91±10%

viscosity 150~250mPa·s (NDJ-8S)

(25°C) Rotational viscometer

Restoration model resin



Model DR-RM

Flexural modulus 1162.23Mpa ±10% 12.89% ±10% Elongation at break Bending strength 52.48MPa ±10%

Hardness (Shore D) 85-88

1.05—1.28 g/cm³ Density Notched impact strength 144 j/m ±10% Maximum pull 2473N ±10% 150-300MPa·s Viscosity Tensile Strength 52.7 MPa ±10% Tensile modulus 397.96Mpa ±10% 23°C±2°C Test room temperature 50%RH±5%RH Humidity in test room

Test strip test standard **ASTM**

Post curing The test paper is post-cured

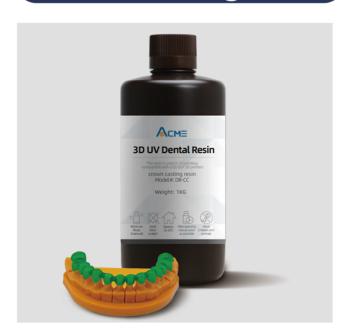
for 2 minutes with 200mw/cm²

405nm in water

Dental resin

LCD/DLP 3D printed dental mold photosensitive resin

Crown casting resin



Model DR-CC

Flexural modulus 811.088 Mpa ±10% Elongation at break 8.853% ±10% Bending strength 39.816 Mpa ±10%

Hardness (Shore D) 85-88

Notched impact strength 133.97 J/m ±10% 6.228 ±10% Elongation at yield point 1272N ±10% maximum pull Density 1.05—1.25 g/cm³ 433.669 Mpa ±10% Tensile modulus 50-170 MPa·s Viscosity Tensile strength 30.599Mpa ±10% 23°C±2°C Test room temperature 50%RH±5%RH Humidity in test room

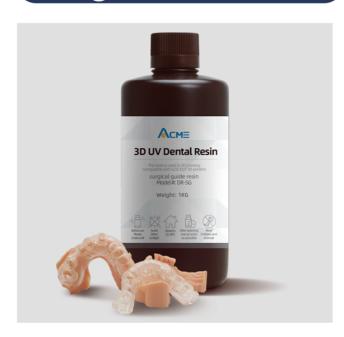
Test strip test standard **ASTM**

Post curing The test paper is post-cured

for 2 minutes with 200mw/cm²

405nm in water

Surgical Guide resin



Model DR-SG

Flexural modulus 481.96 Mpa ±10% Elongation at break 17.46% ±10% 22.08 Mpa ±10% Bending strength

Hardness (Shore D)

Post-curing

Notched impact strength 115.2 J/m ±10% 5.22±10% Yield point elongation Maximum pull 992.5N±10% density 1.05—1.25 g/cm³ Tensile modulus 23.87 Mpa ±10% 100-200 MPa·s viscosity 312.8 Mpa ±10% tensile strength Test chamber temperature 23°C±2°C Test chamber humidity 50%RH±5%RH Test strip test standards ASTM

The test paper is post-cured

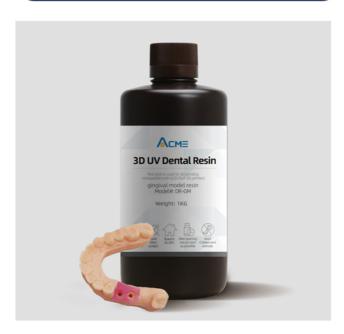
for 2 minutes with 200mw/cm²

405nm in water

Dental resin

LCD/DLP 3D printed dental mold photosensitive resin

Gingival model resin



DR-GM Model Maximum pull 55.2 N ±10% Elongation at break 110.28% ±10% Tensile modulus 1.32MPa ±10%

Hardness (Shore A) 50-60A

Tensile Strength 1.33 MPa±10% 350-550 MPa·s Viscosity 1.05—1.25 g/cm³ Density Absorption wavelength 355-410nm Test room temperature 23°C±2°C Humidity in test room 50%RH±5%RH

Test strip test standard ASTM

Post curing The test paper is post-cured

for 2 minutes with 200mw/cm²

405nm in water

Denture base model resin



Model DR-DB Maximum Force (KGF) 108.7±10% Tensile strength (MPa) 25.62±10% Deformation of maximum force 9.99±10%

point (mm)

Yield point elongation(%) 5.50±10% 17.65±10% Elongation at break(%) Maximum bending strength (MPa) 25.48±10% Flexural modulus of elasticity (MPa) 693.51±10% Shore hardness (D) 80~85 Impact strength(j/m) 118.46±10% Tensile modulus (MPa) 320.80±10% 23±2°C Temperature Relative humidity 50%RH±5%RH

Test spline standards **ASTM**

Post curing The test paper is post-cured

for 2 minutes with 200mw/cm²

405nm in water

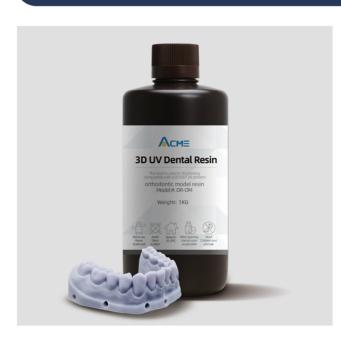




Dental resin

LCD/DLP 3D printed dental mold photosensitive resin

Orthodontic Model Resin



DR-OM Model

Flexural modulus 397.96Mpa ±10% Elongation at break 8.44% ±10% Bending strength 21.72MPa ±10%

Hardness (Shore D) 85 D

Density 1.05—1.28 g/cm³ Notched impact strength 74.3 j/m ±10% 752N ±10% Maximum pull Viscosity 250-350MPa·s 18.1 MPa ±10% Tensile strength

140°C Instantaneous temperature

Tensile modulus 268.45 MPa ±10%

Test chamber temperature 23°C±2°C Test chamber humidity 50%RH±5%RH **ASTM**

Test strip test standards

Post curing The test paper is post-cured

for 2 minutes with 200mw/cm²

405nm in water

405 resin

General purpose resin

LCD/DLP 3D printing photosensitive resin







Easy to shape

Finished surface Short curing time is smooth



Low odor



- Wide range of applications
- The printed model has a good post-coloring effect
- · High print speed and short curing time
- High precision combined with good hardness and toughness, suitable for design verification
- Has good hardness and toughness, can be lightly processed
- Fully restore the details of the model and release your favorite
- · Good compatibility and fluidity, full and uniform color, not easy to layer
- Low odor, low shrinkage

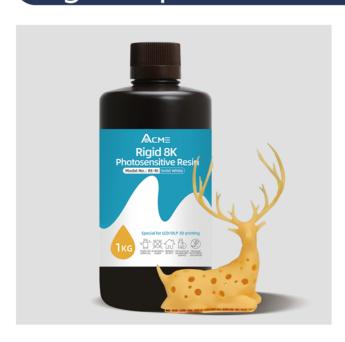




General purpose resin

LCD/DLP 3D printing photosensitive resin

Rigid 8K photosensitive resin



 $\begin{array}{lll} \mbox{Model} & \mbox{RE-RI} \\ \mbox{Maximum Force (kGF)} & 168.7 \pm 10\% \\ \mbox{Tensile strength (MPa)} & 45.62 \pm 10\% \\ \mbox{Deformation of maximum force} & 5.75 \pm 10\% \\ \end{array}$

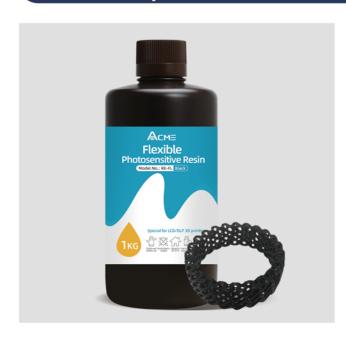
point (mm)

Yield point elongation(%) $6.34\pm10\%$ Elongation at break(%) $11.5\pm10\%$ Maximum bending strength (MPa) $58.3\pm10\%$ Flexural modulus of elasticity (MPa) $1123.2\pm10\%$ Shore hardness (D) $80\sim85$ Impact strength(j/m) $76\pm10\%$ Tensile modulus (MPa) $608.5\pm10\%$

Color

Solid White/Transparent Blue/Aqua Blue/Extra Black/Solid Gray Solid Orange/Solid Green/Solid Skin/Solid Pink/Khaki/Solid Purple/ Transparent Green/Transparent Red/Transparent/Chinese Red/ Metallic silver/Mint green/Apricot/Artisan blue/Four-color red Four-color yellow/Four-color blue

Flexible photosensitive resin



 $\begin{array}{ll} \mbox{Model} & \mbox{RE-FL} \\ \mbox{Maximum force (kGF)} & 6.72 \pm 10\% \\ \mbox{Tensile strength (MPa)} & 1.58 \pm 10\% \\ \mbox{Deformation at the point of} & 41.70 \pm 10\% \end{array}$

maximum force (mm)

Yield point elongation (%) $31.85\pm10\%$ Elongation at break (%) $75.27\pm10\%$ Shore hardness (D) $76\sim82$ Tensile modulus (MPa) $2.28\pm10\%$

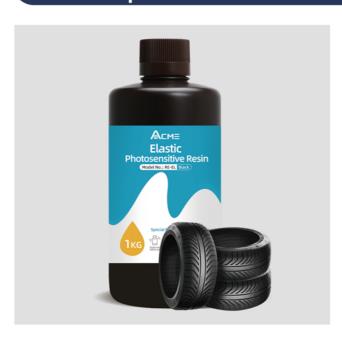
Color Black/White/Gray/Transparent

Aqua blue/Skin tone

General purpose resin

LCD/DLP 3D printing photosensitive resin

Elastic photosensitive resin



Model RE-EL

Maximum force (kGF) 2.8±10%

Tensile strength (MPa) 0.66±10%

Deformation at the point of 75.87±10%

maximum force (mm)

Yield point elongation (%) 41.26±10%

Yield point elongation (%) 41.26±10%

Elongation at break (%) 135.58±10%

Shore hardness (D) 40~45

Tensile modulus (MPa) 0.598±10%

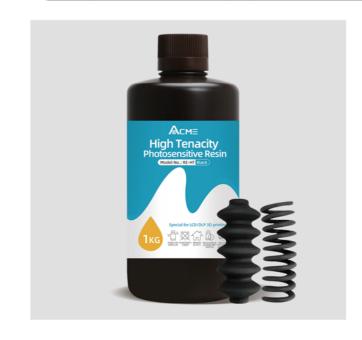
Color Black/White/Gray/

Transparent

RE-HT

High Tenacity photosensitive resin

Model

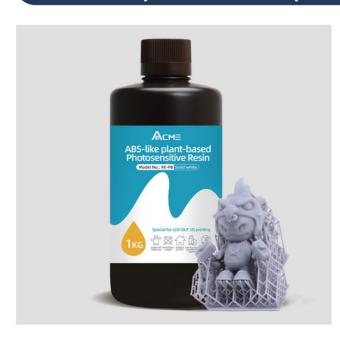


Maximum Force (kGF) 89.9±10% Tensile strength (MPa) 21.19±10% Deformation of maximum force 8.55±10% point (mm) Yield point elongation(%) 5.10±10% Elongation at break(%) 40.10±10% Maximum bending strength (MPa) 18.82±10% Flexural modulus of elasticity (MPa) 528.4±10% 78~82 Shore hardness (D) Impact strength(j/m) 397±10% Tensile modulus (MPa) 283.32±10% Color Black/White/Gray/ Transparent

General purpose resin

LCD/DLP 3D printing photosensitive resin

ABS-like plant-based photosensitive resin



Model	RE-PB
Maximum Force (kGF)	116.5±10%
Tensile strength (MPa)	27.46±10%
Deformation of maximum force	12.33±10%
maint (mana)	

point (mm)

Yield point elongation(%)

Elongation at break(%)

Maximum bending strength (MPa)

Flexural modulus of elasticity (MPa)

Shore hardness (D)

Tensile modulus (MPa)

5.57±10%

21.8±10%

531.27±10%

531.27±10%

58±10%

328.5±10%

Color

Model

Solid White/Transparent Blue/Aqua Blue/Extra Black/Solid Gray Solid Orange/Solid Green/Solid Skin/Solid Pink/Khaki/Solid Purple/ Transparent Green/Transparent Red/Transparent/Chinese Red/ Metallic silver/Mint green/Apricot/Artisan blue/Four-color red Four-color yellow/Four-color blue

RE-EN

Engineering-like photosensitive resin



Model	IVE EIV
Maximum Force (kGF)	162.76±10%
Tensile strength (MPa)	38.36±10%
Deformation of maximum force	6.80±10%
point (mm)	
Yield point elongation(%)	7.22±10%
Elongation at break(%)	35.44±10%
Maximum bending strength (MPa)	44.15±10%
Flexural modulus of elasticity (MPa)	979.24±10%
Shore hardness (D)	80~88
Impact strength(j/m)	454.37±10%
Tensile modulus (MPa)	447.12±10%
Color	Grey/White/Black/
	Transparent blue

405 resin

Jewelry resin

LCD/DLP 3D printing photosensitive resin





Good flammability



High precision

Small Suitable for a expansion variety of metals



High Low adaptability shrinkage

- Suitable for jewelry industry, teaching and research, toy design, handicraft design, industrial parts
 - Casting effect up to shipment level, suitable for jewelry types: diamond rings, fine coins, Buddha pendants, thick-walled pieces, jewelry, etc
 - Excellent combustion performance, small expansion and less residue
 - Self-developed special formula, low coefficient of thermal expansion, good burnout performance, no ash residue,
 - Easy to reverse mold
 - Contains a high proportion of solid wax mixtures to effectively reduce expansion and achieve high quality casting
 - Fine surface quality, fine detail features
 - Design of the casting mixture, using standard vacuum investment casting methods
 - · LCD/DLP light curing &3D printing jewelry casting

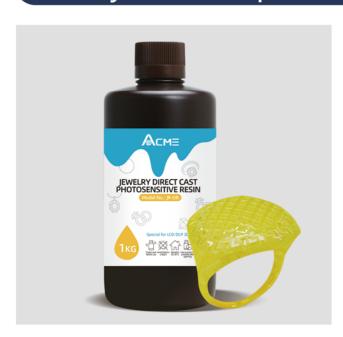




Jewelry resin

LCD/DLP 3D printing photosensitive resin

Jewelry direct cast photosensitive resin



JR-DR Model Maximum Force (kGF) 24.7±10% Tensile strength (MPa) 5.82±10% Deformation of maximum force 7.30±10% point (mm) Yield point elongation(%) 8.80±10% Elongation at break(%) 13.06±10% Maximum bending strength (MPa) 4.34±10% Flexural modulus of elasticity (MPa) 161.15±10% Shore hardness (D) 50~60 37.5±10% Impact strength(j/m) Tensile modulus (MPa) 46.73±10%

Jewelry high wax casting photosensitive resin

Model



Maximum Force (kGF) 89.2±10% Tensile strength (MPa) 21.02±10% Deformation of maximum 12.02±10% force point (mm) Yield point elongation(%) 7.69±10% 21.25±10% Elongation at break(%) Maximum bending strength (MPa) 16.50±10% Flexural modulus of elasticity (MPa) 425.80±10% Shore hardness (D) 60~70 Impact strength(j/m) 86.7±10% Tensile modulus (MPa) 209.35±10%

JR-JH

Jewelry resin

LCD/DLP 3D printing photosensitive resin

Jewelry casting photosensitive resin



Model	JR-JC
Maximum Force (kGF)	88.6+10%
Tensile strength (MPa)	20.88+10%
Deformation of maximum	18.73+10%
force point (mm)	
Yield point elongation(%)	47.34+10%
Elongation at break(%)	32.96+10%
Maximum bending strength (MPa)	13.75+10%
Flexural modulus of elasticity (MPa)	333.68+10%
Shore hardness (D)	58~68
Impact strength(j/m)	117.72+10%
Tensile modulus (MPa)	152.82+10%



405 resin

Red wax resin

LCD/DLP 3D printing photosensitive resin









Low shrinkage



Strong and tough





- Models printed with red wax resin are finer in detail, smoother, and less layered than regular resins
- High degree of detail reduction of molded parts, high-grade matte texture on the surface, non-reflective, easy to color, easy to observe details
- Suitable for most 405nm light-curing printers
- Ceramic powder has high strength, hardness and heat resistance
- Ability to maintain high detail and surface smoothness, making it suitable for manufacturing high-quality products
- The printed product is not easy to break, has both rigidity and toughness, and can withstand certain shock and vibration
- Accuracy up to 0.02mm
- High precision and low shrinkage to ensure accurate model restoration

Red wax resin

LCD/DLP 3D printing photosensitive resin

High precision red wax resin



Model	RE-RW
Maximum Force (kGF)	160.8±10%
Tensile strength (MPa)	37.90±10%
Deformation of maximum	6.87±10%
force point (mm)	
Yield point elongation(%)	6.21±10%
Elongation at break(%)	12.15±10%
Maximum bending strength (MPa)	41.40±10%
Flexural modulus of elasticity (MPa)	1188.91±10%
Shore hardness (D)	82~86
Impact strength(j/m)	46±10%
Tensile modulus (MPa)	508.12±10%

High precision ceramic resin



Model	RE-CR
Maximum Force (kGF)	160.8±10%
Tensile strength (MPa)	37.90±10%
Deformation of maximum	6.87±10%
force point (mm)	
Yield point elongation(%)	6.21±10%
Elongation at break(%)	12.15±10%
Maximum bending strength (MPa)	41.40±10%
Flexural modulus of elasticity (MPa)	1188.91±10%
Shore hardness (D)	82~86
Impact strength(j/m)	46±10%
Tensile modulus (MPa)	508.12±10%