

405 resin

Dental resin

LCD/DLP 3D printed dental mold photosensitive resin



- 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



Model	DR-TC
Maximum Force (KGF)	127.30±10%
Tensile strength (MPa)	30.00±10%
Deformation of maximum force point (mm)	3.65±10%
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)
Rotational viscometer	(25°C)

Restoration model resin



Model	DR-RM
Flexural modulus	1162.23Mpa ±10%
Elongation at break	12.89% ±10%
Bending strength	52.48MPa ±10%
Hardness (Shore D)	85-88
Density	1.05—1.28 g/cm ³
Notched impact strength	144 j/m ±10%
Maximum pull	2473N ±10%
Viscosity	150-300MPa·s
Tensile Strength	52.7 MPa ±10%
Tensile modulus	397.96Mpa ±10%
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/cm ² 405nm in water

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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%
Elongation at yield point	6.228 ±10%
maximum pull	1272N ±10%
Density	1.05—1.25 g/cm ³
Tensile modulus	433.669 Mpa ±10%
Viscosity	50-170 MPa·s
Tensile strength	30.599Mpa ±10%
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/cm ² 405nm in water

Surgical Guide resin



Model	DR-SG
Flexural modulus	481.96 Mpa ±10%
Elongation at break	17.46% ±10%
Bending strength	22.08 Mpa ±10%
Hardness (Shore D)	85D
Notched impact strength	115.2 J/m ±10%
Yield point elongation	5.22±10%
Maximum pull	992.5N±10%
density	1.05—1.25 g/cm ³
Tensile modulus	23.87 Mpa ±10%
viscosity	100-200 MPa·s
tensile strength	312.8 Mpa ±10%
Test chamber temperature	23°C±2°C
Test chamber humidity	50%RH±5%RH
Test strip test standards	ASTM
Post-curing	The test paper is post-cured for 2 minutes with 200mw/cm ² 405nm in water

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Gingival model resin



Model	DR-GM
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%
Viscosity	350-550 MPa·s
Density	1.05—1.25 g/cm ³
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/cm ² 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%
Elongation at break(%)	17.65±10%
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%
Temperature	23±2°C
Relative humidity	50%RH±5%RH
Test spline standards	ASTM
Post curing	The test paper is post-cured for 2 minutes with 200mw/cm ² 405nm in water

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Orthodontic Model Resin



Model	DR-OM
Flexural modulus	397.96Mpa $\pm 10\%$
Elongation at break	8.44% $\pm 10\%$
Bending strength	21.72MPa $\pm 10\%$
Hardness (Shore D)	85 D
Density	1.05—1.28 g/cm ³
Notched impact strength	74.3 j/m $\pm 10\%$
Maximum pull	752N $\pm 10\%$
Viscosity	250-350MPa·s
Tensile strength	18.1 MPa $\pm 10\%$
Instantaneous temperature	140°C
Tensile modulus	268.45 MPa $\pm 10\%$
Test chamber temperature	23°C $\pm 2^\circ$ C
Test chamber humidity	50%RH $\pm 5\%$ RH
Test strip test standards	ASTM
Post curing	The test paper is post-cured for 2 minutes with 200mw/cm ² 405nm in water

405 resin

General purpose resin

LCD/DLP 3D printing photosensitive resin



High precision

Easy to shape

Finished surface is smooth

Short curing time

Low odor

Low shrinkage

- 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



Model	RE-RI
Maximum Force (kGF)	168.7±10%
Tensile strength (MPa)	45.62±10%
Deformation of maximum force point (mm)	5.75±10%
Yield point elongation(%)	6.34±10%
Elongation at break(%)	11.5±10%
Maximum bending strength (MPa)	58.3±10%
Flexural modulus of elasticity (MPa)	1123.2±10%
Shore hardness (D)	80~85
Impact strength(j/m)	76±10%
Tensile modulus (MPa)	608.5±10%
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



Model	RE-FL
Maximum force (kGF)	6.72±10%
Tensile strength (MPa)	1.58±10%
Deformation at the point of maximum force (mm)	41.70±10%
Yield point elongation (%)	31.85±10%
Elongation at break (%)	75.27±10%
Shore hardness (D)	76~82
Tensile modulus (MPa)	2.28±10%
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 maximum force (mm)	75.87±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

High Tenacity photosensitive resin



Model	RE-HT
Maximum Force (kGF)	89.9±10%
Tensile strength (MPa)	21.19±10%
Deformation of maximum force point (mm)	8.55±10%
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%
Shore hardness (D)	78~82
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 point (mm)	12.33±10%
Yield point elongation(%)	5.57±10%
Elongation at break(%)	21.8±10%
Maximum bending strength (MPa)	20.27±10%
Flexural modulus of elasticity (MPa)	531.27±10%
Shore hardness (D)	78~86
Impact strength(j/m)	58±10%
Tensile modulus (MPa)	328.5±10%
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

405 resin

Jewelry resin

LCD/DLP 3D printing photosensitive resin



Engineering-like photosensitive resin



Model	RE-EN
Maximum Force (kGF)	162.76±10%
Tensile strength (MPa)	38.36±10%
Deformation of maximum force point (mm)	6.80±10%
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



- 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



Model	JR-DR
Maximum Force (kGF)	24.7±10%
Tensile strength (MPa)	5.82±10%
Deformation of maximum force point (mm)	7.30±10%
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
Impact strength(j/m)	37.5±10%
Tensile modulus (MPa)	46.73±10%

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 force point (mm)	18.73±10%
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%

Jewelry high wax casting photosensitive resin



Model	JR-JH
Maximum Force (kGF)	89.2±10%
Tensile strength (MPa)	21.02±10%
Deformation of maximum force point (mm)	12.02±10%
Yield point elongation(%)	7.69±10%
Elongation at break(%)	21.25±10%
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%

405 resin

Red wax resin

LCD/DLP 3D printing photosensitive resin



- 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 force point (mm)	6.87±10%
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 force point (mm)	6.87±10%
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%