



DIGITAL DENTAL MANUFACTURING

Materials. Equipment. Production.

LET'S CONNECT

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PRODUCT CATALOG

RAYFORM



Materials & Equipment

Digital Dental Manufacturing



SHENZHEN · SINCE 2018

About RayForm

Shenzhen RayForm Technology Co., Ltd.

Founded in 2018 in Shenzhen, RayForm develops dental 3D printing materials and equipment for laboratories and manufacturing partners.

Our portfolio brings together dental resins, industrial and desktop LCD/DLP printers, post-processing systems and clear aligner automation.

We support production through material selection, print parameters and post-processing guidance, helping customers build consistent workflows from development to scale.

MATERIALS · EQUIPMENT
PROCESS · SUPPORT

rayformtech.com

THE RAYFORM PORTFOLIO

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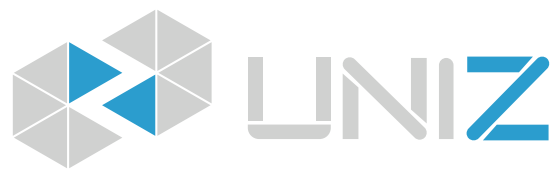
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COMPATIBLE PRINTERS

RayForm has validated 3D resin workflows
with these selected printers.



Also compatible with other open-system printers.

Orthodontic Model Resin

Fine detail. Fast forming. Easy cleaning.



1000 g / BOTTLE
LCD / DLP

Material properties

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	1000–1400
Hardness Shore D	ASTM D2240	90
Tensile strength MPa	ASTM D638	90
Elongation at break %	ASTM D638	9
Flexural strength MPa	ASTM D790	110
Flexural modulus MPa	ASTM D790	2100

For detailed dental models.

This model resin has low odor and low viscosity for fast printing and forming. It is easy to clean, reproduces fine details and offers good toughness.

- 

High precision
- 

Low shrinkage
- 

Low odor
- 

Fast forming
- 

Good toughness
- 

Strong tensile & flexural strength



Typical values

DENTAL MODEL DETAIL



Full-arch model



Anatomical detail



COLORS

- 

White
- 

Grey
- 

Yellow
- 

Customized

APPLICATION

Dental models

Fine anatomical detail for model production.

385–405 nm
Regular DLP / LCD printers

PACKAGING

0.5 / 1 / 5 kg
per bottle

ORTHODONTIC

Water Washable Model Resin

Fine detail. Fast forming. Clean with water.



1000 g / BOTTLE
LCD / DLP

Clean with tap water.

A water-washable resin for precise dental models. Low odor, low shrinkage and good toughness support printing. Models can be cleaned with tap water, simplifying post-processing.

- 

Water-washable
- 

Low odor
- 

Low shrinkage
- 

Strong tensile & flexural strength
- 

Good toughness
- 

Fast forming & high precision



Material properties

Typical values

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	400
Hardness Shore D	ASTM D2240	85
Tensile strength MPa	ASTM D638	57.6
Elongation at break %	ASTM D638	14
Flexural strength MPa	ASTM D790	55.4
Flexural modulus MPa	ASTM D790	1500

APPLICATION

Dental models

Clean with tap water.



COLORS

-  White
-  Gray
-  Yellow
-  Blue
-  A2
- Customized

385–405 nm
Regular DLP / LCD printers

0.5 / 1 / 5 kg
per bottle

HIGH PRECISION

Implant Model Resin

Fine detail. Strength. Dimensional stability.



1000 g / BOTTLE
LCD / DLP

For precise working models.

A high-precision resin for large-scale dental model production. It combines strength, dimensional stability and fine detail, balancing production efficiency and cost.

- High precision
- High strength
- Dimensional stability
- Excellent detail resolution
- Heat & aging resistant
- Cost effective



Material properties

Typical values

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	300
Hardness Shore D	ASTM D2240	83
Tensile strength MPa	ASTM D638	72
Elongation at break %	ASTM D638	14
Flexural strength MPa	ASTM D790	69.6
Flexural modulus MPa	ASTM D790	1700

IMPLANT MODEL DETAIL



Removable-die detail

Occlusal view



COLORS

- Gray
- Yellow

APPLICATION

Working models

Strength and stability for dental model production.

385–405 nm
Regular DLP / LCD printers

PACKAGING
0.5 / 1 kg
per bottle

INVISIBLE

Denture Base Resin

Precision. Elasticity. Fatigue resistance.



1000 g / BOTTLE
LCD / DLP

For flexible denture bases.

A resilient resin for printing flexible denture bases. It combines precision, toughness and fatigue resistance, with surfaces that are easy to polish.

- 

High strength
- 

Good hardness
- 

Easy to polish
- 

High elasticity
- 

High precision
- 

Fatigue resistant



Material properties

Typical values

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.12
Viscosity mPa·s	ASTM D445	650
Hardness Shore D	ASTM D2240	73
Tensile strength MPa	ASTM D638	45
Elongation at break %	ASTM D638	100
Flexural strength MPa	ASTM D790	52
Flexural modulus MPa	ASTM D790	1000

APPLICATION

Flexible
denture bases



385–405 nm
Regular DLP / LCD printers

0.5 / 1 kg
per bottle

Denture Base Resin

High strength. High precision. Easy polishing.



1000 g / BOTTLE
LCD / DLP

For denture base production.

High flexural strength, hardness and fracture resistance, with good adhesion to crown and bridge materials.

- 

High strength
- 

Good hardness
- 

High precision
- 

Easy to polish
- 

Wear-resistant
- 

Biocompatible



Material properties

Typical values

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	1100
Hardness Shore D	ASTM D2240	88
Tensile strength MPa	ASTM D638	90
Elongation at break %	ASTM D638	10
Flexural strength MPa	ASTM D790	110
Flexural modulus MPa	ASTM D790	2000

PRINTED DENTURE BASES



Upper denture base



Lower denture base



COLORS



Pink

APPLICATION

Denture bases

Full, partial and implant-supported denture bases.

385–405 nm

Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg
per bottle

Permanent Crowns Resin

25% / 55% ceramic filler.



1000 g / BOTTLE
LCD / DLP

For permanent crown production.

High wear and fracture resistance, with good bonding performance and biocompatibility.

- 

Fast formation rate
- 

Ultra-high surface hardness
- 

High precision
- 

High-temperature resistance
- 

High build speed
- 

Biocompatible



Material properties

Typical values · ceramic filler

Property / Unit	Test method	55%	25%
Density g/cm³	ASTM D792	1.6–1.7	1.3–1.4
Viscosity mPa·s	ASTM D445	4500	4500
Hardness Shore D	ASTM D2240	94	94
Tensile strength MPa	ASTM D638	140	120
Elongation at break %	ASTM D638	5	6
Flexural strength MPa	ASTM D790	140–150	140
Flexural modulus MPa	ASTM D790	3500	2500

PRINTED CROWN DETAIL



Crown profile



Occlusal detail



COLORS

- 

A1
- 

A2
- 

A3
- 

BL (OM2)
- 

B1

APPLICATION

Permanent crowns

Ceramic-filled resin.

385–405 nm

Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg
per bottle

Temp C&B Resin

Temporary crowns, bridges, inlays and veneers.



1000 g / BOTTLE
LCD / DLP

Material properties

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	1000–1400
Hardness Shore D	ASTM D2240	90
Tensile strength MPa	ASTM D638	75
Elongation at break %	ASTM D638	9
Flexural strength MPa	ASTM D790	110
Flexural modulus MPa	ASTM D790	2100

For temporary restorations.

High pressure and impact resistance, with precise marginal adaptation for temporary crowns, bridges, inlays and veneers.

- 

High strength
- 

Good hardness
- 

High precision
- 

Easy to polish
- 

Wear-resistant
- 

Impact resistant



PRINTED CROWN & BRIDGE DETAIL



Three-unit bridge



Full-arch application



COLORS

- 

A1
- 

A2
- 

A3
- 

BL (OM2)
- 

B1

APPLICATION

Crowns & bridges

Temporary restorations.

385–405 nm
Regular DLP / LCD printers

PACKAGING
0.5 / 1 kg
per bottle

Fixed Hybrid Dentures Resin

25% / 55% ceramic filler.



1000 g / BOTTLE
LCD / DLP

For full-arch implant restorations.

Wear-resistant resin with high flexural strength and reliable bonding performance. MMA- and THF-MA-free formulation.

- High flexural strength
- High abrasion resistance
- Chemical resistance
- MMA & THF-MA free
- Biocompatible
- Anti-staining effect



Material properties

Typical values · ceramic filler

Property / Unit	Test method	55%	25%
Density g/cm³	ASTM D792	1.6–1.7	1.3–1.4
Viscosity mPa·s	ASTM D445	4500	4500
Hardness Shore D	ASTM D2240	94	94
Tensile strength MPa	ASTM D638	140	120
Elongation at break %	ASTM D638	5	6
Flexural strength MPa	ASTM D790	140–150	140
Flexural modulus MPa	ASTM D790	3500	2500

FULL-ARCH APPLICATION



Full-arch implant-supported restoration



COLORS

- A1
- A2
- A3
- BL (OM2)
- B1

APPLICATION

Full-arch restorations

Implant-supported.

385–405 nm
Regular DLP / LCD printers

PACKAGING
0.5 / 1 kg
per bottle

Wax Casting Resin

Clean burnout. Low residual ash.



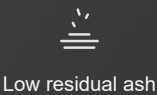
1000 g / BOTTLE
LCD / DLP

Material properties

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	100–200
Hardness Shore D	ASTM D2240	87–90
Heating temperature °C	—	850–1000
Residual ash content %	—	<0.1
Flexural strength MPa	ASTM D790	90
Flexural modulus MPa	ASTM D790	1300

For digital casting patterns.

A 3D printing resin for denture framework casting blanks, with clean burnout and low residual ash. No post-curing is required.



Low residual ash



Clean burn-out



No post-curing required



High precision



Good hardness

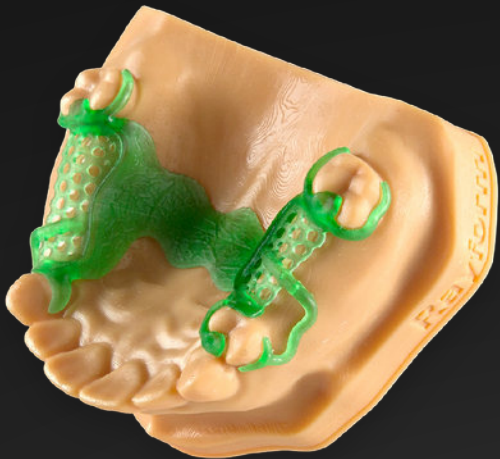


Castable



Typical values

PRINTED CASTING PATTERNS



Pattern on model



Framework pattern



COLORS



Green



Red

APPLICATION

Casting patterns

For digital denture framework casting.

385–405 nm

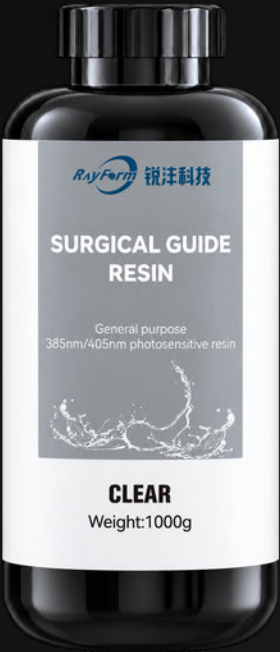
Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg
per bottle

Surgical Guide Resin

High precision. Transparent clarity.



1000 g / BOTTLE
LCD / DLP

Material properties

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	200
Hardness Shore D	ASTM D2240	83–87
Tensile strength MPa	ASTM D638	61.4
Elongation at break %	ASTM D638	13.2
Flexural strength MPa	ASTM D790	65.6
Flexural modulus MPa	ASTM D790	1700

For implant guide production.

Transparent resin for implant guides and locators, with clear visibility for positioning and high surface hardness.

- Good biocompatibility
- Transparent & clear
- Ultra-high surface hardness
- High strength
- High precision
- Fast forming



Typical values

TRANSPARENT GUIDE APPLICATIONS



Angled view



Front view



COLORS

- Transparent

APPLICATION

Implant guides

For implant guides and locators.

- 385–405 nm**

Regular DLP / LCD printers

PACKAGING
0.5 / 1 kg
per bottle

Gingiva Mask Resin

High elasticity. Precise assembly.



1000 g / BOTTLE
LCD / DLP

Material properties

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.1-1.16
Viscosity mPa·s	ASTM D445	2000-3000
Hardness Shore A	ASTM D2240	70
Tensile strength MPa	ASTM D638	31.4
Elongation at break %	ASTM D638	172

Typical values

For flexible gingival models.

A flexible resin for simulated gingival segments, combining elasticity, tear resistance and stable assembly with dental models.



High elasticity



Tear resistant



Odorless



High precision



Low shrinkage



Good assembly performance



PRINTED GINGIVA MASKS



Gingiva mask on model



Separate gingiva masks



COLORS



Pink

APPLICATION

Gingival masks

For flexible gingival segments on models.

385–405 nm

Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg
per bottle

4D Clear Aligner Resin

Shape memory. Balanced flexibility.



1000 g / BOTTLE
LCD / DLP

For clear aligner production.

A transparent resin for clear aligner production, combining shape memory, fatigue resistance and toughness.



Transparent



Better comfort



Biocompatible



Fatigue resistance



Shape memory



Tough



Material properties

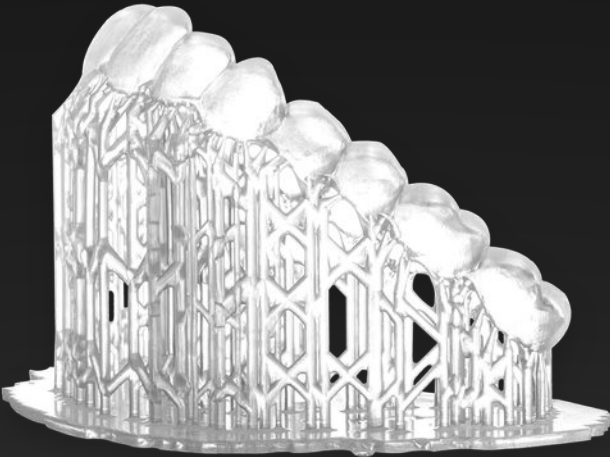
Typical values

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.1
Viscosity mPa·s	ASTM D445	2800–3200
Hardness Shore D	ASTM D2240	80–82
Tensile strength MPa	—	36–38
Elongation at break %	—	70–80
Flexural strength MPa	ASTM D790	30–40
Flexural modulus MPa	ASTM D790	1000–1200

CLEAR ALIGNER APPLICATIONS



Aligner on model



Printed with supports



COLORS



Clear Transparent

APPLICATION

Clear aligners

For 3D-printed clear aligners.

385–405 nm

Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg

per bottle

Hard Splint Resin

Precision. Strength. Dimensional stability.



1000 g / BOTTLE
LCD / DLP

For hard splint production.

A resin for bite plates, occlusal splints and retainers, combining dimensional stability, wear resistance and high flexural strength.

- 

High precision
- 

High toughness
- 

Easy to clean
- 

Wear-resistant
- 

Dimensional stability
- 

Biocompatible



Material properties

Typical values

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.1
Viscosity mPa·s	ASTM D445	600–700
Hardness Shore D	ASTM D2240	85–90
Tensile strength MPa	ASTM D638	80–90
Elongation at break %	ASTM D638	8–10
Flexural strength MPa	ASTM D790	85–95
Flexural modulus MPa	ASTM D790	2200–2500

HARD SPLINT APPLICATIONS



Splint on model



Standalone splint



COLORS

-  Semi Clear

APPLICATION

Occlusal splints

Bite plates, splints and retainers.

- 385–405 nm
Regular DLP / LCD printers

PACKAGING
0.5 / 1 kg
per bottle

Soft Splint Resin

Shape memory. High flexibility.



1000 g / BOTTLE
LCD / DLP

For soft splint production.

A resin for 3D-printed bite pads and night guards, with thermo-reactive shape memory and softening at 35–40 °C.

- Shape memory function
- High flexibility
- High precision
- Corrosion-resistant
- Dimensional stability
- Safe & non-toxic



Material properties

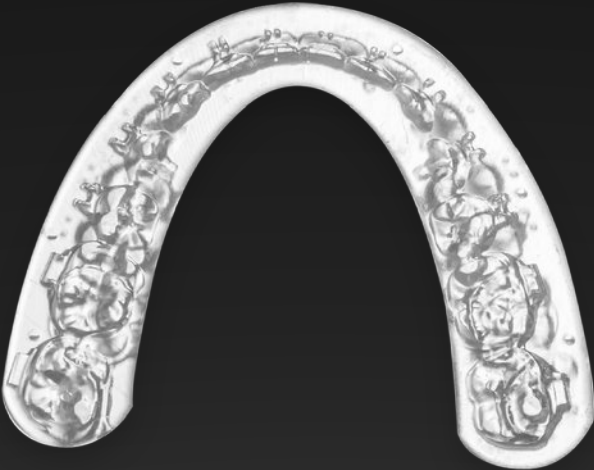
Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.1
Viscosity mPa·s	ASTM D445	850–900
Hardness Shore D	ASTM D2240	80–82
Tensile strength MPa	ASTM D638	30–35
Elongation at break %	ASTM D638	75–85
Flexural strength MPa	ASTM D790	30–35
Flexural modulus MPa	ASTM D790	1000–1200

Typical values

SOFT SPLINT APPLICATIONS



Angled view



Occlusal view



COLORS

-
- Semi Clear

APPLICATION

Soft splints

Bite pads and night guards.

385–405 nm
Regular DLP / LCD printers

PACKAGING
0.5 / 1 kg
per bottle

IBT Resin

Flexible trays. Precise bracket positioning.



1000 g / BOTTLE
LCD / DLP

Material properties

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.04–1.1
Viscosity mPa·s	ASTM D445	1000
Hardness Shore D	ASTM D2240	30
Tensile strength MPa	ASTM D638	12
Elongation at break %	ASTM D638	140
Tensile modulus MPa	—	35
Solubility µg/mm³	—	3.5

Typical values

For indirect bonding trays.

A flexible resin for indirect bonding trays, with easy removal and sub-millimeter accuracy for bracket positioning.

- 

Biocompatible
- 

High flexibility
- 

Easy to remove
- 

Non-stick surface
- 

Sub-mm bracket accuracy
- 

Chemical resistant



INDIRECT BONDING TRAY APPLICATIONS



Angled view



Front view



COLORS

-  Semi Transparent

APPLICATION

Indirect bonding

For bracket transfer tray production.

- 385–405 nm
Regular DLP / LCD printers

PACKAGING
0.5 / 1 kg
per bottle

Materials Formulated for Clear Aligner Models

High-temperature resistance. Water-washable processing.

High-temperature Model Resin



High-temperature-resistant dental model resin.

- ⚡ Fast formation rate
- 🛡️ Ultra-high surface hardness
- 🔧 Superior toughness and force retention
- 📏 High precision
- 🔥 High-temperature resistance

COLORS



PACKAGING

1000 g bottle

5 kg bulk packaging

385 nm / 405 nm

Water-washable Model Resin



Water-washable model resin. Clean printed models with tap water.

- 🌬️ Low odor
- 📏 Low shrinkage
- 🔧 Strong tensile & flexural strength
- 🔧 Good toughness
- 🕒 Fast forming & high precision

COLORS



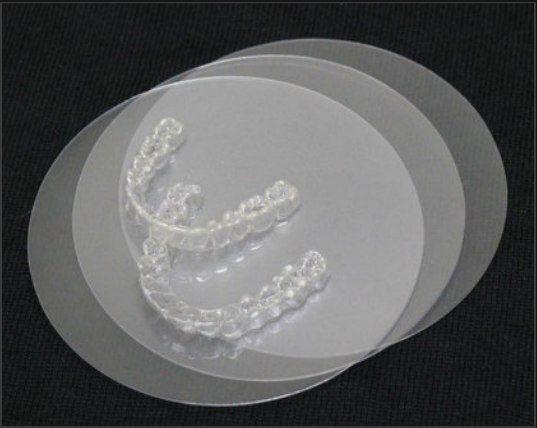
PACKAGING

1000 g bottle

5 kg bulk packaging

385 nm / 405 nm

Invisible Orthodontic Sheet



Sheet stock with thermoformed application samples.

THERMOFORMED
ON MODEL



- Stress retention
- Elastic recovery
- Crack & wear resistance
- Clarity & stain resistance

Series & specifications

Multi-layer and single-layer material options.

SERIES	MATERIAL	STRUCTURE
FLEX	PETG + TPU	 Multi-layer
DURA	PETG + TPU	 Multi-layer
CLEAR	PETG	 Single-layer

THICKNESS ALL SERIES

0.50 / 0.75 / 1.00 mm

SHEET FORMATS



ROUND
Ø125 / Ø120 mm



SQUARE
125 × 125 mm

PACKAGING OPTIONS

20 or 220

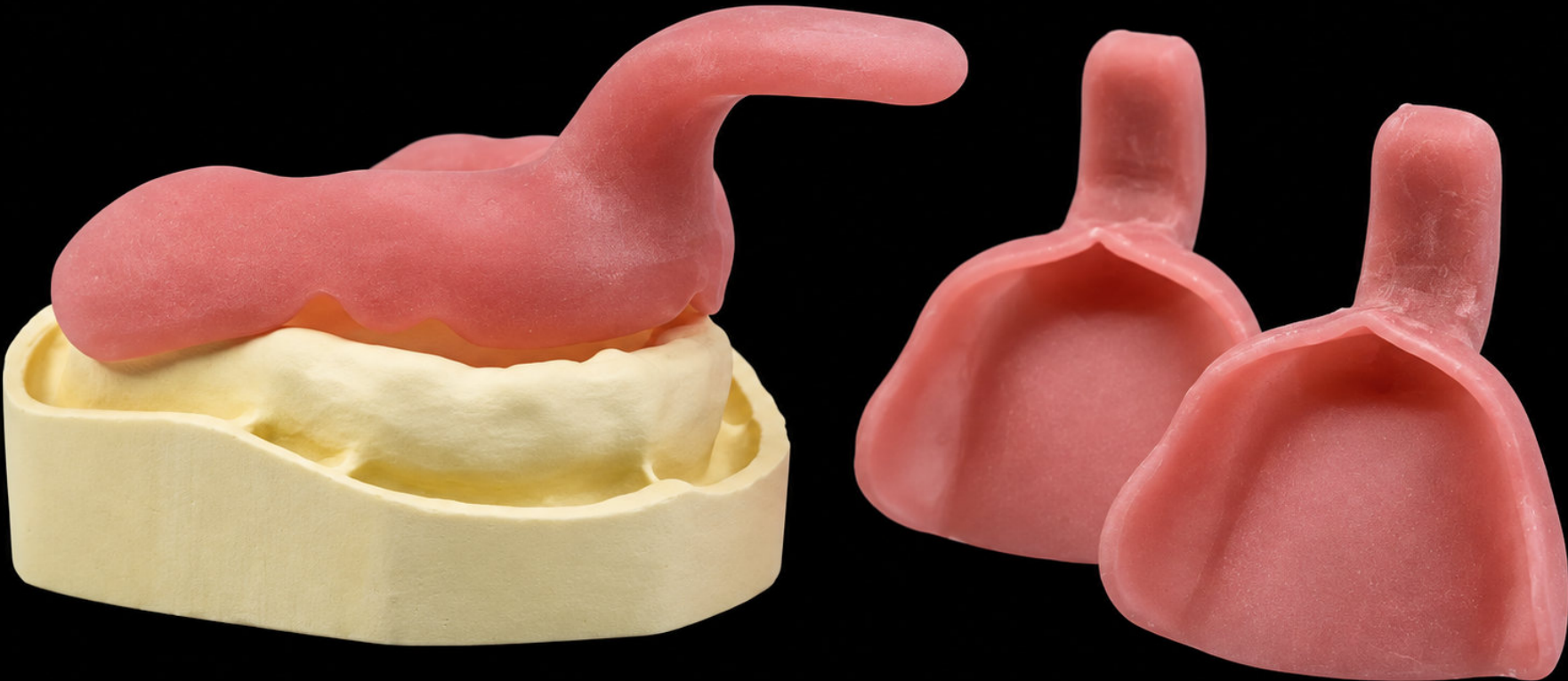
pcs / foil bag

ROLL SIZES mm

0.76 × 101 × 152.4
0.76 × 125 × 152.4
0.76 × 137 × 152.4
0.76 × 249 × 76
0.76 × 249 × 152.4

Light Curing Tray Material

Preformed light-curing resin for individual impression trays and base plates.



Custom impression tray fabrication examples.

Thixotropic
handling

Adaptability &
shape stability

Precise contouring
& trimming

Thickness

2.0	2.3	2.5
mm	mm	mm

Material data

Material type	Light-curing resin
Color	Pink
Curing time	3–5 minutes per side
Flexural strength	110 MPa

Applications

Individual trays for crown
and bridge impressions.

Individual trays for complete
denture procedures.

Base plates for bite registration
and bite patterns.

Ceraform

Paste Type

Light-curing polymer-ceramic restorative material
for precision layering and sculpting in dental laboratories.



GUMP-L / GUMP-M / GUMP-D · Gingival paste · 4 g



GINGIVAL LAYERING · AI ILLUSTRATION

GINGIVAL APPLICATION

Layering with paste

Add and shape gingival contours with a sculptable paste consistency.

High-filler
formulation

Anatomical
sculpting

Stable
build-up

Ceraform System

Physical properties

Property	Ceraform	Flowable
Vickers hardness MPa	675	385
Compressive strength MPa	362	280
Flexural strength MPa	145	136
Tooth abrasion µm / 200k times	0.57	0.82
Opaque	2.2	2.5

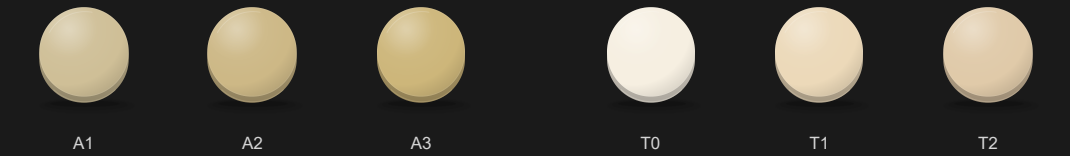
Paste shades

Gingiva



Crown

Transparency



Illustrative colors. Actual material color may vary.

Ceraform

Flowable Type

Flowable composite for thin-layer build-up and adaptation to complex restorative surfaces.



Gum shades
Illustrative colors



AI application illustrations



Brush application



Brush adaptation

Category reference

Opaque

High-masking light-cure opaquer

Base color masking

For metal or discolored substrates.



Shown: OP-A1 · 2 g

Masking	High masking power in thin layers
Compatibility	For indirect restorative substrates
Light-curing	Fast, uniform polymerization

Opaque shades

Illustrative colors



2 g packaging · No transparency

Stain Shade Kit

Light-curing colors for gingival and crown
characterization in dental laboratories.

Selected gingival shades



Gum Pink Gum Light Red



Gum Middle Red Gum Deep Red

Images illustrate coloring techniques;
bottles show selected gingival shades.



Red characterization

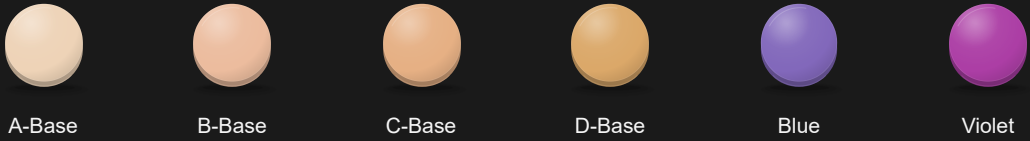


Blue-gray characterization

Color range

20 shades for characterization

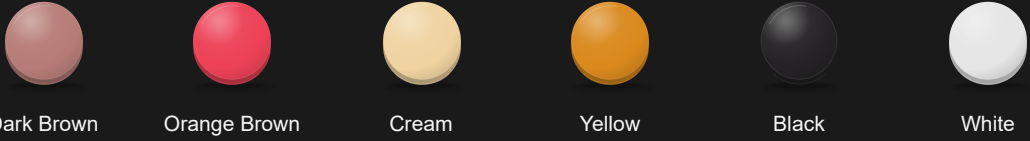
Chromas



Gingival



Colors



Auxiliary materials

Material illustrations



Illustrative colors. Actual material color may vary.

Gingival application

Preparation, characterization & layering



01 Surface conditioning



02 Bonding layer



03 Pale gingival zones



04 Red characterization



05 Blue-gray characterization



06 Flowable application



07 Brush adaptation



08 Dark gingival layering



09 Interlveolar contour



10 Papilla contouring



11 Warm gingival layering



12 Attached gingiva contour

RAYFORM MATERIALS

Selected materials

Product category references



Ceraform Flowable
GUMF-L · 3 g



Ceraform Paste
GUMP-L · 4 g



Stain
Gum Light Red

AI application illustrations. Product examples indicate material categories. Follow RayForm instructions for product selection and processing.

Gingival application

Contouring & surface finishing



13 Mucogingival transition



14 Blending layers



15 Light gingival layering



16 Free gingiva contour



17 Translucent layering



18 Transition contouring



19 Final surface sculpting



20 Barrier application



21 Surface finishing



22 Pre-polishing



23 Polishing



24 High-gloss polishing

Layering & finishing

Gingival paste for layering and anatomical sculpting.



Ceraform Paste
GUMP-L · 4 g

Process context

The finishing sequence illustrates barrier coating, surface refinement and rotary polishing.

The product shown refers to the gingival layering material.



EQUIPMENT COLLECTION

Dental 3D Printing Equipment



Desktop LCD Series

RF-DL900 shown



RF-DL900 / RF-DL600

Desktop dental 3D printers.

Two configurations. One familiar design.

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6K / 4K
LCD configurations
- 

7-inch
Capacitive touchscreen
- 

45 min
Printing time*
Chairside application
- 

USB / WLAN
Device connectivity



FRONT VIEW



COVER OPEN

Build dimensions
See configuration table

7-inch
Capacitive touchscreen



RF-DL900 shown.

Choose your configuration.

Specification	RF-DL900 6K	RF-DL600 4K
LCD screen	9.25-inch 6K	6.23-inch 4K
Pixel matrix	5760 × 3600 px	3840 × 2400 px
XY resolution	33 μm	34 μm
Build dimensions (L × W × H)	198 × 123 × 130 mm	134 × 84 × 120 mm
Suggested layer thickness	0.01–0.2 mm	0.01–0.15 mm
Machine dimensions (L × W × H)	347 × 347 × 490 mm	284 × 290 × 430 mm
Net weight	25 kg	18.5 kg
Gross weight	30 kg	27 kg

*Actual printing time varies with the application, material and print settings.

Shared specifications.

Touchscreen	7-inch capacitive touchscreen
Light source	COB light source + Fresnel lens
Slicer software	CHITUBOX (.ctb files)
Connectivity	USB drive / WLAN RJ45 100M / Wi-Fi 2.4 GHz
Power supply	24 V / 10 A