RayForm 锐沣科技

DIGITAL DENTAL MANUFACTURING

Materials.
Equipment.
Production.

LET'S CONNECT

SHENZHEN · CHINA

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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

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COMPATIBLE PRINTERS

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

HeyGears

UNIZ

rapidshape

phrozen

ELEGOO

RAYSHAPE®

CREALITY

ANYCUBIC

SHINING 3D

ACKURETTA
A Pac-Dent Company

ASIGA®

formlabs

MIICRAFT

Photocentric

Also compatible with other open-system printers.

Dental Model Resin **for Third-Party Printers**

Alcohol-wash version · TDS V1.0b

RF-ZJ-01

ALCOHOL-WASH
LCD / DLP

For detailed dental models.

Low-viscosity model resin for detailed prints. See all five versions.

- High precision
- Low shrinkage
- Low odor
- Fast forming
- Good toughness
- Fine print detail

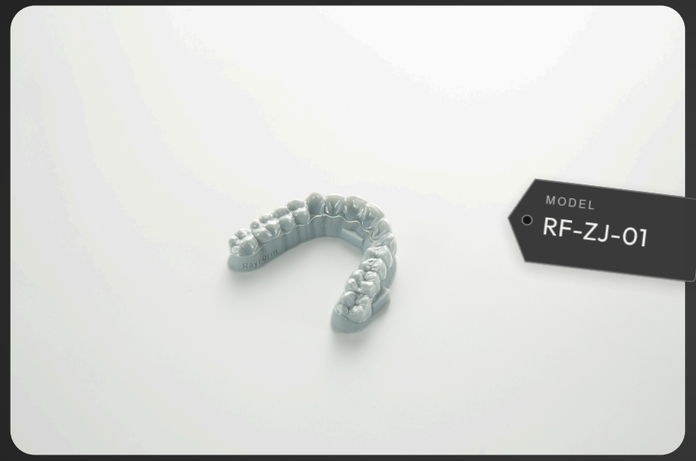
DENTAL MODEL DETAIL



Full-arch model



Anatomical detail



COLORS

Gray

APPLICATION

Dental models

Fine anatomical detail for model production.

385–405 nm
Regular DLP / LCD printers

PACKAGING

0.5 / 1 / 5 kg
per bottle

Material properties

Typical values · TDS V1.0b

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	350
Hardness Shore D	ASTM D2240	83–86
Tensile strength MPa	ASTM D638	51
Elongation at break %	ASTM D638	12
Flexural strength MPa	ASTM D790	56
Flexural modulus MPa	ASTM D790	1430

MODEL RESINS

Water Washable
Dental 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 · TDS V1.0a

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

- Milky White
- Gray
- Yellow

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 · TDS V1.0a

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

APPLICATION

Working models

Strength and stability for dental model production.

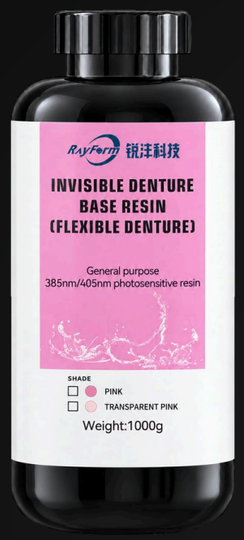
385–405 nm
Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg
per bottle

Flexible Denture **Base Resin**

Flexible denture base resin.



1000 g / BOTTLE
LCD / DLP

For flexible denture bases.

For printing flexible denture bases. See the material properties below.

- High strength
- Good hardness
- Easy to polish
- High elasticity
- High precision
- Fatigue resistant

Material properties

Typical values · TDS V1.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05-1.15
Viscosity mPa·s	ASTM D445	650-700
Hardness Shore D	ASTM D2240	71-75
Tensile strength MPa	ASTM D638	45
Elongation at break %	ASTM D638	100
Flexural strength MPa	ASTM D790	50
Flexural modulus MPa	ASTM D790	1000

APPLICATION

Flexible denture bases



385–405 nm
Regular DLP / LCD printers

0.5 / 1 kg
per bottle

Rigid Denture **Base Resin**

High strength. High precision. Easy polishing.



1000 g / BOTTLE
LCD / DLP

For denture base production.

Rigid resin for denture bases, with good hardness and high toughness.

- High strength
- Good hardness
- High precision
- Easy to polish
- Wear-resistant
- High toughness

Material properties

Typical values · TDS V2.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	2000 ± 400
Hardness Shore D	ASTM D2240	80–86
Tensile strength MPa	ASTM D638	70–110
Elongation at break %	ASTM D638	2–10
Flexural strength MPa	ASTM D790	90–130
Flexural modulus MPa	ASTM D790	1900

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
Crown Resin

25% / 55% ceramic filler.



1000 g / BOTTLE
LCD / DLP

For permanent crown production.

Two formulations for printing permanent crowns. Compare the V2.0a typical values below.

- Permanent crowns
- Ultra-high surface hardness
- High precision
- Good hardness
- Two formulations
- High toughness

Material properties

Typical values · 55% TDS V2.0a / 25% TDS V2.0a

Property / Unit	Test method	55%	25%
Density g/cm³	ASTM D792	1.4-1.7	1.2-1.35
Viscosity mPa·s	ASTM D445	11000 ± 3000	9000 ± 2000
Hardness Shore D	ASTM D2240	90-95	87-91
Tensile strength MPa	ASTM D638	90-140	75-120
Elongation at break %	ASTM D638	2-8	2-10
Flexural strength MPa	ASTM D790	100-140	90-130
Flexural modulus MPa	ASTM D790	4000-5000	2000

PRINTED CROWN DETAIL



Crown profile



Occlusal detail



COLORS

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

APPLICATION

Permanent crowns

Ceramic-filled resin.

385–405 nm
Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg
per bottle

Temporary Crown & Bridge Resin

Temporary crowns and bridges.



1000 g / BOTTLE
LCD / DLP

For temporary crowns and bridges.

For printing temporary crowns and bridges. The V2.0a TDS reports good hardness and high toughness.

- High strength
- Good hardness
- High precision
- Easy to polish
- Wear-resistant
- Impact resistant

Material properties

Typical values · TDS V2.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05-1.15
Viscosity mPa·s	ASTM D445	2000 ± 400
Hardness Shore D	ASTM D2240	80-86
Tensile strength MPa	ASTM D638	70-110
Elongation at break %	ASTM D638	2-10
Flexural strength MPa	ASTM D790	104.2
Flexural modulus MPa	ASTM D790	2000

PRINTED CROWN & BRIDGE DETAIL



Three-unit bridge



Full-arch application



COLORS

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

APPLICATION

Crowns & bridges

Temporary restorations.

385–405 nm
Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg
per bottle

Fixed Hybrid
Denture Resin

Good hardness. High toughness.



1000 g / BOTTLE
LCD / DLP

For fixed hybrid denture bases.

Fixed hybrid denture base resin. The V2.0a TDS lists the material properties shown below.

- High flexural strength
- Material properties
- Printable resin
- Good hardness
- High toughness
- Fixed hybrid bases

Material properties

Typical values · TDS V2.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.24
Viscosity mPa·s	ASTM D445	9000 ± 2000
Hardness Shore D	ASTM D2240	87-91
Tensile strength MPa	ASTM D638	75-120
Elongation at break %	ASTM D638	2-10
Flexural strength MPa	ASTM D790	90-130
Flexural modulus MPa	ASTM D790	2500

FULL-ARCH APPLICATION



Full-arch implant-supported restoration



COLORS

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

APPLICATION

Full-arch restorations

Implant-supported.

385–405 nm
Regular DLP / LCD printers

PACKAGING

0.5 / 1 kg
per bottle

Castable Resin
for Dental Casting

Clean burnout. Low residual ash.



1000 g / BOTTLE
LCD / DLP

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.

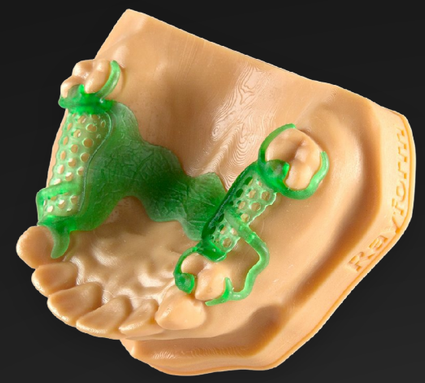
- Low residual ash
- Clean burn-out
- No post-curing required
- High precision
- Good hardness
- Castable

Material properties

Typical values · TDS V1.0a

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

PRINTED CASTING PATTERNS



Pattern on model



Framework pattern



COLORS

Green

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

For implant guide production.

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

- Clear appearance
- Transparent & clear
- Ultra-high surface hardness
- High strength
- High precision
- Fast forming

Material properties

Typical values · TDS V1.0a

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

TRANSPARENT GUIDE APPLICATIONS



Angled view



Front view



COLORS

- Clear

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

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

Material properties

Typical values · TDS V1.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.10–1.16
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

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 Direct
Aligner Resin

Shape memory. Balanced flexibility.



1000 g / BOTTLE
LCD / DLP

For direct printing of clear aligners.

Clear resin for direct-print aligners. See the V1.0a TDS for the material properties.

- Transparent
- Direct printing
- Shape recovery
- Fatigue resistance
- Shape memory
- Tough

Material properties

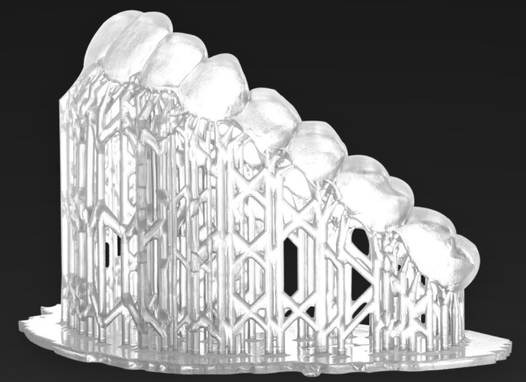
Typical values · TDS V1.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.15
Viscosity mPa·s	ASTM D445	2800–3200
Hardness Shore D	ASTM D2240	80–82
Tensile strength MPa	ASTM D638	36–38
Elongation at break %	ASTM D638	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

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
- Good hardness

Material properties

Typical values · TDS V1.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05-1.10
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
- Flexible material

Material properties

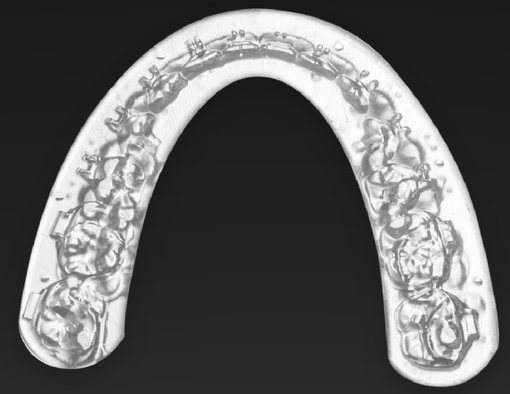
Typical values · TDS V1.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.05–1.10
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

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

Indirect Bonding Tray (IBT) Resin

Flexible trays. Precise bracket positioning.



1000 g / BOTTLE
LCD / DLP

For indirect bonding trays.

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

- Semi-transparent
- High flexibility
- Easy to remove
- Non-stick surface
- Sub-mm bracket accuracy
- Chemical resistant

Material properties

Typical values · TDS V1.0a

Property / Unit	Test method	Value
Density g/cm³	ASTM D792	1.04-1.10
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	ASTM D638	35
Solubility μg/mm³	ISO 20795-2	3.5

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. TDS V1.0a

- Fast formation rate
- Ultra-high surface hardness
- Good toughness
- High precision
- High-temperature resistance

COLORS

Gray · Milky White · Yellow

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. TDS V1.0a

- Low odor
- Low shrinkage
- Strong tensile & flexural strength
- Good toughness
- Fast forming & high precision

COLORS

Milky White · Gray · Yellow

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

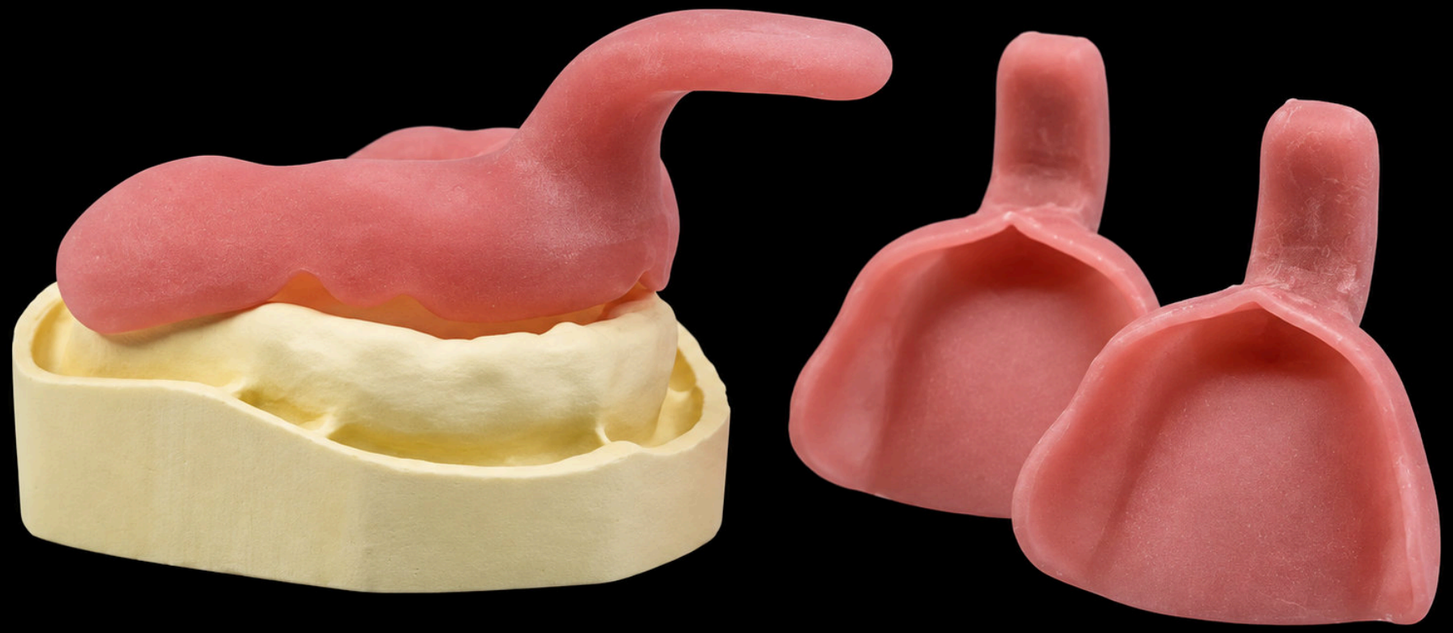
20 or 220
pcs / foil bag

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



GUMP-T · GUMP G21 · GUMP-L · GUMP G24 · GUMP-M · GUMP-D

Crown



A1 · A2 · A3

Transparency



T0 · T1 · T2

Illustrative colors. Actual material color may vary.

Ceraform

Flowable Type

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







GUMF-L / GUMF-M / GUMF-D

Available: 2 g / 3 g

Gum shades

Illustrative colors



GUMF-L GUMF-M GUMF-D

AI application illustrations

Category reference



Brush application



Brush adaptation

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



OP-A1 OP-A2 OP-A3 OP-WO

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

AI illustrations · Material-category references

Color range

20 shades for characterization

Chromas

A-Base · B-Base · C-Base · D-Base · Blue · Violet

Gingival

Red · Pink · Red Pink · Magenta

Gum Pink · Gum Light Red · Gum Middle Red · Gum Deep Red

Colors

Dark Brown · Orange Brown · Cream · Yellow · Black · White

Auxiliary materials

Material illustrations

Diluent · Transparent Glaze (Soft) · Transparent Glaze

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



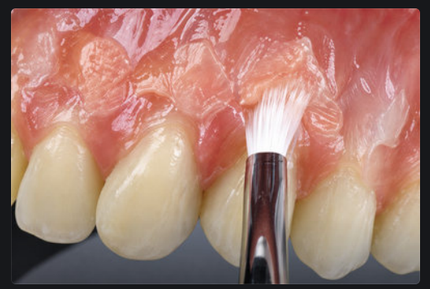
09 Interalveolar contour



10 Papilla contouring



11 Warm gingival layering



12 Attached gingiva contour

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

Selected materials

Product category references



Ceraform Flowable

GUMF-L · 3 g



Ceraform Paste

GUMP-L · 4 g



Stain

Gum Light Red

Gingival application

Contouring & surface finishing



13 Mucogingival transition



14 Blending layers



15 Light gingival layering



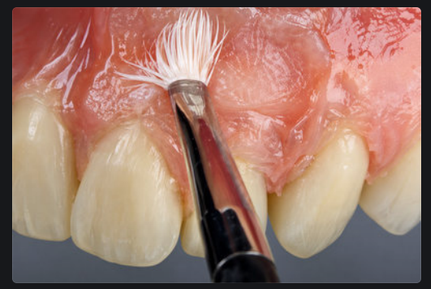
16 Free gingiva contour



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

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

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.

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

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

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