

Print with best-in-class Formlabs Dental resins or third-party resins on Form 4B and Form 4BL. Together, these solutions provide maximum flexibility on the industry's most trusted dental 3D printers.

# ANY APPLICATION, TOTAL FLEXIBILITY



[dental.formlabs.com](https://dental.formlabs.com)



# Formlabs Resins: High-Accuracy 3D Printing Materials

Formlabs offers the widest range of resins so you can produce safe and effective end-use appliances and restorations that can be patient-matched and produced at scale.

All Formlabs Dental resins are formulated and manufactured at our state-of-the-art facilities.

Biocompatible resins are manufactured within a robust Quality Management System that is **ISO 13485 Certified, FDA-regulated, and EU MDR Compliant**. Furthermore, our biocompatible resins are manufactured to the highest global standards in our ISO Class 8 Clean Room.

Request a Free  
Sample Part



## Bulk Resin Discount

Discounts on resins are available for high-volume customers, making it easier and more affordable than ever to produce large volumes of dental models and dental appliances.

| Bulk order quantity (L) | Discount % |
|-------------------------|------------|
| 1                       | 0%         |
| 30                      | 15%        |
| 60                      | 20%        |
| 120                     | 25%        |
| 240                     | 30%        |
| 1,000                   | 35%        |
| 2,000                   | 40%        |
| 3,000                   | 45%        |

## Orthodontic Applications

### Models for Diagnostics and Thermoforming Appliances

Models in Record Time for Diagnosis or Aligner Production



### Indirect Bonding Trays

Accurate Bonding That's Easier to Plan and Use



### Occlusal Splints and Guards

For Long-Lasting Rigid and Flexible Appliances



## Restorative Applications

### Wax-Up Models

Your Digital Design With a Smoother Surface Finish



### Restorative Models

Soft and Rigid Components for Better Prosthetic Planning



### Temporary and Permanent Restorations

State-of-the-Art Ceramic-Filled Restorations



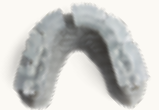
### Temporary All-on-X Appliances

For Reliable and Accurate Temporary Full-Arch Implant-Supported Restorations



### Direct Composite Restoration Guides

Perfectly Replicate Digital Designs With Faster Workflows



### Surgical Guides

For Highly Accurate and Predictable Implant Placement



### Custom Impression Trays

Directly Printed for a Quicker Turnaround



### Patterns for Casting and Pressing

Optimize Your Analog Workflow With Digital Accuracy



### Digital Dentures

Expanding Access to High-Quality Dentures in Custom Shades



# Formlabs Is Open!

Freedom to print 50+ third-party materials on the most reliable dental platform.

# Orthodontic Applications



# Models for Diagnostics and Thermoforming Appliances

## HIGHLY PRECISE MODELS IN RECORD TIME

Print 11 dental models in nine minutes, producing models for thermoforming clear aligners and retainers faster than ever. 3D print high-quality models in record time for case presentation and diagnosis. Streamline your workflow with PreForm Dental's Scan to Model feature for printable models in seconds.

|                                                   |                                                                                                                                  |                                                                                                                       |                                                                                                                                  |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|                                                   |                                                 |                                     |                                               |
| <b>Resin name</b>                                 | <b>Fast Model Resin</b>                                                                                                          | <b>White Resin</b>                                                                                                    | <b>Grey Resin</b>                                                                                                                |
| <b>Classification</b>                             | Non-biocompatible                                                                                                                | Non-biocompatible                                                                                                     | Non-biocompatible                                                                                                                |
| <b>When to use</b>                                | <b>Clear Aligners and Retainers</b><br>Fastest model resin to unlock same-visit dentistry and achieve high production throughput | <b>Diagnostic and Case Presentation Models</b><br>Beautiful, economical models for diagnosis and patient presentation | <b>Diagnostic Models and Fit Testing</b><br>Accurate dental models for easy fitment checks of splints and indirect bonding trays |
| <b>Suggested layer height</b>                     | 160 microns                                                                                                                      | 100 microns                                                                                                           | 100 microns                                                                                                                      |
| <b>Workflow time</b><br>For a full build platform | Print time: 9 min<br><br>Wash: 5 min<br><br>Form Cure V2: 1 min                                                                  | Print time: 28 min<br><br>Wash: 5 min<br><br>Form Cure V2: 1 min                                                      | Print time: 31 min<br><br>Wash: 5 min<br><br>Form Cure V2: 1 min                                                                 |
| <b>Cost per part</b>                              | \$/€ 1-2 per model                                                                                                               | \$/€ 1-2 per model                                                                                                    | \$/€ 1-2 per model                                                                                                               |
| <b>Models per cartridge</b>                       | ~100                                                                                                                             | ~100                                                                                                                  | ~100                                                                                                                             |
|                                                   |                                               |                                    |                                             |

# Indirect Bonding Trays

## ACCURATE BONDING: EFFORTLESSLY PLAN AND PRINT

Reduce chairtime and optimize bracket positioning by fabricating indirect bonding trays. IBT Flex Resin offers enhanced tear strength, translucency, and flexibility so you can give your patients a vastly improved experience.



### Resin name

**IBT Flex Resin**

### Classification

Class I  
Biocompatible  
One-time use

### When to use

**Indirect Bonding Trays**  
Print high-quality indirect bonding trays with enhanced flexibility and tear strength

### Suggested layer height

100 microns

### Workflow time

For a full build platform

Print time: 54 min

Wash: 20 min

Form Cure V2: 7 min at 70 °C

### Cost per part

\$/€ 2.50-4 per model

### Parts per cartridge

~100



### Fast Model Resin

Non-biocompatible

### Models for Bracket Placement and Thermoformed Appliances

Combine digital and analog procedures by printing models with brackets and thermoforming indirect bonding trays

100 microns

Print time: 25 min

Wash: 5 min

Form Cure V2: 1 min

\$/€ 1-2 per model

~100



# Occlusal Splints and Guards

## FOR LONG-LASTING RIGID OR FLEXIBLE APPLIANCES

Directly print rigid or flexible occlusal splints and guards with high accuracy, durability, optical transparency, discoloration resistance, and comfort for improved patient adoption and long-term outcomes.



### Resin name

**Dental LT Clear Resin (V2)**

**Dental LT Comfort Resin**

### Classification

510(k) Cleared (US) / Class IIa (EU)  
Biocompatible  
Long-term use

510(k) Cleared (US) / Class IIa (EU)  
Biocompatible  
Long-term use

### When to use

#### Rigid Occlusal Splints and Nightguards

A stiff, highly durable, and fracture-resistant material that polishes to high optical transparency and resists discoloration over time

#### Flexible Occlusal Splints and Nightguards

A flexible and durable material for comfortable long-term splints and occlusal guards that are easily polished to high optical transparency

### Suggested layer height

100 microns

100 microns

### Workflow time

For a full build platform

Print time: 43 min

Print time: 43 min

Wash: 15 min

Wash: 10 min

Form Cure V2: 10 min at 60 °C

Form Cure V2: 7 min at 60 °C

### Cost per part

\$/€ 3.50-4.50 per part

\$/€ 4-5 per part

### Parts per cartridge

~100

~100

### Technical Data Sheet



# Restorative Applications



# Wax-Up Models

## YOUR DIGITAL DESIGN WITH A SMOOTHER SURFACE FINISH

From motivational mock-ups to testing aesthetics and function, users can accurately transfer digital smile designs with silicone indexes produced upon models 3D printed with Fast Model Resin, Precision Model Resin, or Grey Resin.

|                                                   |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                               |                                                                                                                                                                        |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   |                                                                                                                                                                                                 |                                                                                             |                                                                                     |
| <b>Resin name</b>                                 | <b>Fast Model Resin</b>                                                                                                                                                                                                                                                          | <b>Precision Model Resin</b>                                                                                                                                                  | <b>Grey Resin</b>                                                                                                                                                      |
| <b>Classification</b>                             | Non-biocompatible                                                                                                                                                                                                                                                                | Non-biocompatible                                                                                                                                                             | Non-biocompatible                                                                                                                                                      |
| <b>When to use</b>                                | <b>Fast and Accurate Models</b><br>A fast-printing resin that enables high throughput and fast turnarounds for applications like clear aligner models. Consistently print 11 arches in a nine-minute job with 95% of the printed surface area within 100 µm of the digital model | <b>Ultra-High Accuracy Wax-up Models</b><br>Developed for accurate restorative models, this resin can also serve for printing wax-up models when higher precision is required | <b>Wax-up Models With a Smooth Surface Finish</b><br>Produce accurate models for multiple purposes, including wax-up models and models for fitment check of appliances |
| <b>Suggested layer height</b>                     | 100 microns<br>160 microns                                                                                                                                                                                                                                                       | 50 microns<br>100 microns                                                                                                                                                     | 100 microns                                                                                                                                                            |
| <b>Workflow time</b><br>For a full build platform | Print time: 9 min<br><br>Wash: 5 min<br><br>Form Cure V2: 1 min                                                                                                                                                                                                                  | Print time: <2 h<br><br>Wash: 5 min<br><br>Form Cure V2: 1 min                                                                                                                | Print time: 47 min<br><br>Wash: 5 min<br><br>Form Cure V2: 1 min                                                                                                       |
| <b>Cost per part</b>                              | \$/€ 1.50-2.50 per model                                                                                                                                                                                                                                                         | \$/€ 2-3 per model                                                                                                                                                            | \$/€ 1.50-2.50 per model                                                                                                                                               |
|                                                   |                                                                                                                                                                                               |                                                                                            |                                                                                   |

# Restorative Models

## SOFT AND RIGID COMPONENTS FOR BETTER PROSTHETIC PLANNING

Create high-accuracy models with flexible gingiva masks in combination with rigid dental models for more accurate planning of implant prosthetics. Customize your models with soft tissue printed in different shades.



### Resin name

**Precision Model Resin**

**Soft Tissue Starter Pack**

### Classification

Non-biocompatible

Non-biocompatible

### Shades

Light sand color with matte surface

Customizable dark, medium, and light pink shades

### When to use

#### Crisp and Accurate Models for Restorative Cases

Consistently create restorative models with >99% of printed surface area within 100 µm of the digital model

#### Soft Tissue for Implant Models and Gingiva Masks

Create flexible gingiva masks for use in combination with rigid dental models. Confidently check implant prosthetics by adding removable soft tissue components to your model production

### Suggested layer height

50 microns  
100 microns

100 microns

### Workflow time

For a full build platform

Print time: ~1 h 50 min at 50 microns, ~46 min at 100 microns

Print time: ~1 h

Wash: 5 min

Wash: 20 min

Form Cure V2: 1 min

Form Cure V2: 3 min at 60 °C

### Cost per part

\$/€ 2-4 per model

\$/€ 1 per part



# Temporary and Permanent Restorations

## STATE-OF-THE-ART CERAMIC-FILLED RESTORATIONS

Directly 3D print single-unit restorations, bridges, and full-arch implant-supported restorations with excellent intraoral mechanical properties and aesthetics that replicate a patient's natural smile.



### Premium Teeth Resin

Class II 510(k) Cleared (US) / Class IIa (EU)  
Biocompatible  
Temporary use (up to 12 months)

BL A2 A3 B1



Compatible with standard temporary cement agents

### Provisional Restorations and Bridges

Print temporary single-unit restorations (crowns, inlays, onlays, and veneers) and up to seven-unit bridges

50 microns, 100 microns

Print time: 50 min at 50 microns, 25 min at 100 microns

Wash: 10 min

Form Cure V2: 5 min at 80 °C

\$/€ ~1 per single unit



### Premium Teeth Resin

Class II 510(k) Cleared (US) / Class IIa (EU)  
Biocompatible  
Temporary use (up to 12 months)

BL A2 A3 B1



Do not screw an implant-supported restoration directly onto the printed part; the screw should always sit on a metal component, such as a Ti-base

### Accurate Temporary All-on-X Appliances

3D print temporary full-arch implant-supported restorations with optimal intraoral mechanical properties, fracture resistance, and accuracy

100 microns

Print time: 26 min

Wash: 10 min

Form Cure V2: 5 min at 80 °C

\$/€ 7-9 per part



### BEGO™ VarseoSmile® TriniQ® Resin

510(k) Cleared (US) / Class IIa (EU)  
Biocompatible  
Permanent and Temporary use

A2 A3 B1



Compatible with self-adhesive cements (e.g., Relex Unicem and 3M Espe) or composite cement with primer (e.g., Variolink Esthetic DC and Monobond Plus, Ivoclar Vivadent)

### Permanent Bridges and Crowns With High Dimensional Stability and Strength

Print temporary and permanent single units (crowns, inlays, onlays, and veneers) and up to three-unit bridges. BEGO™ VarseoSmile® TriniQ® Resin is the first 3D printed resin indicated for permanent bridges

50 microns

Print time: 1 h 28 min

Wash: 3 min

Form Cure V2: 10 min at 60 °C

\$/€ ~2 per single unit

Compatible only with Formlabs' Build Platform Flex



Resin name

Classification

VITA Shades

Compatibility

When to use

Suggested layer height

Workflow time  
For a full build platform

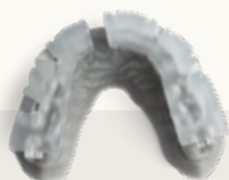
Cost per part

Special hardware requirements

# Direct Composite Restoration Guides

## PERFECTLY REPLICATED DIGITAL DESIGNS WITH FASTER WORKFLOWS

Equipped with high flexibility, tear resistance, and translucency for exceptional printing accuracy from a single restoration to a full smile. Save valuable technician time while delivering consistent, predictable outcomes.



### Resin name

**IBT Flex Resin**

### Classification

Class I (US) / Class I (EU)  
Biocompatible  
Short-term use

### When to use

#### Direct Composite Restoration Guides With Enhanced Accuracy and Translucency

From single units to full digital smile designs, 3D print flexible and tear-resistant translucent trays and guides that save you time and deliver consistent, predictable outcomes for both injectable and pressed composite techniques

### Suggested layer height

50 microns

### Workflow time

For a full build platform

Print time: ~2 h

Wash: 20 min + 10 min soak or spray

Form Cure V2: 7 min at 70 °C

### Cost per part

\$/€ 3-5 per guide



# Surgical Guides

## FOR HIGHLY ACCURATE AND PREDICTABLE IMPLANT PLACEMENT

Developed specifically for Formlabs printers and rigorously tested by dental specialists, our Surgical Guide Resin was designed to exceed demands in part quality, accuracy, and performance for better surgical outcomes.



### Surgical Guide Resin

Class I (US) / Class I (EU)  
Biocompatible  
Short-term use

#### Accurate and Autoclavable Surgical Guides

You can fabricate precise and autoclavable surgical guides to aid in implant placement procedures of single or multi-unit implants

50 microns  
100 microns

Print time: 1 h 30 min at 50 microns, 47 min at 100 microns

Wash: 20 min

Form Cure V2: 5 min at 60 °C

\$/€ 3-5 per guide



# Custom Impression Trays

DIRECTLY PRINTED FOR A QUICKER TURNAROUND

Directly print full impression trays for implants, dentures, crowns, bridges, and other comprehensive cases for reduced labor time, higher throughput, and consistent, accurate impressions with high-quality results.



|                                            |
|--------------------------------------------|
| Resin name                                 |
| Classification                             |
| When to use                                |
| Suggested layer height                     |
| Workflow time<br>For a full build platform |
| Cost per part                              |

Custom Tray Resin

Class I (US) / Class I (EU)  
Biocompatible  
Short-term use

**On-Demand Custom Trays**  
For cases where you opt to use traditional PVS impressions, such as implant or fully edentulous cases, you can fabricate custom impression trays to assist in definitive impression taking

100 microns

Print time: 39 min

Wash: 10 min

Form Cure V2: 5 min at 60 °C

\$/€ ~6 per tray



# Patterns for Casting and Pressing

FOR OPTIMIZING YOUR ANALOG WORKFLOW WITH DIGITAL ACCURACY

Castable Wax Resin provides casting and pressing patterns with sealed margins for accuracy, 20% wax for a clean burnout, and no curing requirements for a streamlined workflow.



Castable Wax Resin

Non-biocompatible

**A Highly Accurate Material for Casting and Pressing Crowns, Bridges, and RPDs**  
Wax patterns for casting and pressing crowns, bridges, and frames for removable partial dentures

50 microns

Print time: ~2.5 h

Wash: 15 min

No curing needed

\$/€ 4 per RPD



# Digital Dentures

## EXPANDING ACCESS TO HIGH-QUALITY DENTURES IN CUSTOM SHADES

Produce high-quality dentures in-house. Formlabs' Premium Teeth Resin and Denture Base Resin enable you to create full dentures in custom shades more easily and affordably than ever.



### Resin name

### Premium Teeth Resin

### Denture Base Resin

### Classification

Class II 510(k) Cleared (US) / Class IIa (EU)  
Biocompatible  
Long-term use

Class II (US) / Class IIa (EU)  
Biocompatible  
Long-term use

### VITA Shades

BL A2 A3 B1



Light Pink LP Original Pink OP Red Pink RP



### Compatibility

Characterization with staining and glazing kits

Characterization with staining and glazing kits  
Compatible with prefabricated teeth

### When to use

#### Strong, Lifelike Denture Teeth

Produce denture teeth for full or partial removable dentures that are to be assembled to printed bases

#### Denture Bases for Long-Term Use

Produce full arch denture bases to be used with printed or prefabricated teeth. Printed teeth are assembled to the printed bases using the liquid Denture Base Resin

### Suggested layer height

50 microns

50 microns

### Workflow time

For a full build platform

Print time: 1 h 15 min

Print time: ~2 h

Wash: 10 min

Wash: 10-20 min

Form Cure V2: 5 min at 80 °C

Form Cure V2: 15 min at 80 °C

### Cost per part

\$/€ ~5 per part

\$/€ ~6 per part



# Formlabs is Open

Form 4B and Form 4BL 3D printers include Open Material Mode (OMM), enabling the printing of any 405 nm photopolymer third-party dental resin on the most reliable and accessible dental 3D printers. Print settings for Formlabs 3D printers, validated by third-party resin manufacturers, are available for **50+ materials** already, with many more coming soon.



"With Open Material Mode, you're no longer restricted to Formlabs resins, opening up competitive options from other manufacturers. You can select materials based on specific case requirements, cost considerations, or personal preferences."

*Dr. Ahmad Al-Hassiny,  
Director, Institute of Digital Dentistry*

"The Formlabs Form 4B is fast and precise, and now, Open Material Mode takes it to the next level. Now, we can print with materials we already enjoy working with, like Dentsply Lucitone Digital Print Denture™ System, and Pac-Dent Rodin resins right on an ecosystem that we enjoy working with today."

*Dr. Michael Scherer,  
DMD, MS*

Explore Third-Party Resins and Print Settings



# Grow Your Business With Formlabs Dental



## Dental Lab FORM 4B + FORM 4BL

"Investing in high-quality hardware and materials has been incredibly beneficial for our dental lab. It's a smart investment that significantly boosts our efficiency and transforms our workflow. The impact has been nothing short of revolutionary."

*Stephan Kreimer, MDT, Kreimer Dentallabor*



## Dental Practice FORM 4B

"3D printing has completely changed the way that we are working in our practice. We have the possibility of a much better interaction with the patient. We have almost halved appointments for patients."

*Dr. Pablo Ramírez, Dentist and Co-director, Clínica Ramírez*



## Orthodontic Practice FORM 4B

"We have found that we can eliminate appointments for patients because we can produce models so quickly on our Form 4B."

*Dr. Lisa Alvetro, Orthodontist, Alvetro Orthodontics*



## Aligner Manufacturer FORM 4B

"Formlabs delivered on faster cycle times, lower operating costs, and helped us build digital workflows — all while maintaining accuracy."

*Deepak Vadali, Head of Manufacturing, Clove Dental*



## Dental Lab FORM 4B + FORM 4BL

"Each week, we conduct an in-house validation test where we scan a selection of models and compare them against the original digital files. The results consistently fall within our defined specifications, demonstrating the reliability and repeatability of our process."

*Manuel Stanesco, CAD-CAM Ortho Manager, Protec Dental Laboratories*



## Dental Practice FORM 4B

"Being able to print a model for a patient in under 10 minutes opens up so many avenues, not just for treatment, but also for revenue generation."

*Dr. Christopher Baer, DMD, Baer Dental*

## READY TO JOIN THEM?

25,000+ printers shipped to dental professionals  
5,000,000+ dental parts printed

formlabs  | dental

FIND A RESELLER IN YOUR REGION:

<https://dental.formlabs.com/company/partners/>

