



3D Printing Materials by SprintRay

Resins designed for dental 3D printing.

Our large selection of dental 3D printing materials are designed to get the most out of SprintRay 3D printers. Developed and tested for market-leading performance in digital dentistry, SprintRay resins are built to achieve high quality results while providing great value for money. With a large selection of biocompatible and model materials, our resins are designed for dental 3D printing.



Nightguards



Crowns & Bridges



Surgical Guides



Bonding Trays



Wax Up Models



Dental Models



Models for Aligners



Denture Base



Gingiva Mask


Forma
dental supplies

New

SprintRay Crown

Strong, precise, durable crowns

- [Instruction for use](#)
- [EU Safety Data Sheet](#)
- [Read IFU](#)
- [Workflow guide](#)
- [Scientific Studies](#)

SprintRay Crown is a ceramic-filled hybrid material for 3D printing of single crowns, inlays, onlays and veneers. Easily finished and polished using traditional methods, this material offers excellent esthetics that conform to existing teeth.

High strength and wear resistance make SprintRay Crown a go-to material for restorative 3D printing. Because SprintRay Crown is FDA 510(k)-approved and meets all requirements for a Class II medical device, you can rely on this resin.

Crown is available in seven shades: A1, A2, A3, B1, B3, C2 and D3. Available in US, EU, UK and EFTA.

- Biocompatible, FDA 510(k) cleared and meets all requirements for a Class II medical device
- Versatile: Use as a single crown on a natural tooth or abutment, as an inlay, onlay or veneer
- A very low water absorption reduces the tendency to age, a smooth surface means less plaque formation

Get a free dental crown 3D print sample



BREAKING LOAD

Fracture loads for crowns made from VarioSmile Crown Plus (SprintRay Crown™) and the competitor resin before and after a 10-year chewing simulation.



AFTER 10 YEARS OF SIMULATION



New

SprintRay EU High Impact Denture Base

Print extremely fast precision-fit denture bases

- [EU Safety Data Sheet](#)
- [Instruction for use](#)



FLEXURAL STRENGTH

High impact strength reduces the chance of breakage under load.



FLEXURAL MODULUS

SprintRay EU High Impact Denture Base



Digital dentures can reduce the number of appointments required for denture placement. SprintRay EU High Impact Denture Base resin is a biocompatible 3D printing resin for the generative fabrication of denture bases. SprintRay EU High Impact Denture Base is available in Orange Pink, Natural Pink, Light Pink & Deep Pink.



SprintRay EU Temporary Crown and Teeth

Produce temporaries quickly and easily

[Safety Data Sheet](#) [Instructions for use](#)

- ✓ Long-term temporaries
- ✓ Denture teeth
- ✓ Fast fabrication



The SprintRay EU Crown and Teeth resin series are biocompatible resins for temporary crowns and bridges. Due to its material properties they can be used both for long-term temporaries and as Denture Teeth in combination with our SprintRay EU High Impact Denture Base.

FLEXURAL STRENGTH

112 MPa

New

SprintRay Surgical Guide 3

Fast and Accurate Implant Guides

[Safety Data Sheet](#) [Instructions for use](#)



Surgical Guide 3 is the fastest, most durable implant guide material that SprintRay has ever made. Featuring improvements to flexural strength and modulus vs SprintRay EU Surgical Guide, you can confidently place implants with this biocompatible resin. Plus, improved printing speeds further reduce time to surgery, improving flexibility and offering a superior patient experience.

By taking advantage of SprintRay Cloud Design and the complete 3D printing system of SprintRay, you can fabricate surgical guides of all kinds, varying from single unit quadrants to full-arch multi-unit implant guides.

- ✓ Fastest-ever SprintRay Surgical Guide resin
- ✓ Clear and aesthetic appearance after autoclaving
- ✓ Improved flexural modulus and strength

FLEXURAL STRENGTH

Higher flexural strength ensures that the model doesn't break during normal use.

SprintRay Surgical Guide 3

105 MPa

SPRINTRAY EU SURGICAL GUIDE

64 MPa

FLEXURAL MODULUS

Higher flexural modulus prevents distortion, which can impact placement accuracy during procedure.

SprintRay Surgical Guide 3

2579 MPa

SprintRay EU Surgical Guide

1584 MPa

VISCOSITY

Lower viscosity values indicate that the resin is easier to mix.

SPRINTRAY SURGICAL GUIDE 3

343 Centipoise

SprintRay EU Surgical Guide

700 Centipoise

New

SprintRay NightGuard Flex

Clinically formulated for maximum speed, patient comfort, and durability.

📄 Longevity Study 📄 Brochure 📄 Read IFU 📄

📄 Workflow guide

- ✓ Simple chairside experience with heat-set delivery
- ✓ >2X faster print speeds vs competitive products
- ✓ Comfortable, easy to clean, and flavorless
- ✓ High impact strength and flexibility
- ✓ Designed for patient comfort

NightGuard Flex was formulated from the ground-up to create the fastest, most comfortable 3D printed occlusal guard in dentistry. Featuring high impact strength and flexure at body temperature, your patients will love the comfort and longevity. Achieve superior fit and finish with a guard that is easy to polish and clean. Plus, NightGuard Flex is flavorless, ensuring smooth delivery.

Designed to work in tandem with SprintRay Cloud Design and Pro 3D printing systems, this biocompatible material creates efficiencies across your fabrication ecosystem. Faster printing speeds and improved dimensional stability while printing mean you save time and resin.

With NightGuard Flex, SprintRay is delivering on the frictionless occlusal guard workflow – from scan, to design, to printing and placement, protecting more smiles and delighting more patients.

Available for sale in the US, Canada and Europe.
FDA 510(k) cleared



IMPACT STRENGTH

High impact strength reduces the chance of breakage under load.

SPRINTRAY NIGHTGUARD FLEX

118 J/m

COMPETITOR RESIN

46 J/m

FULL-ARCH PRINT TIME

Print speeds measured on SprintRay Pro3D at 170µm layer thickness vs competitor resin at 100µm.

SPRINTRAY NIGHTGUARD FLEX

44 Minutes

COMPETITOR RESIN

92 Minutes

Overview of safety data sheets NightGuard Flex



SprintRay Die and Model 2 Tan

Rapidly 3D Print High-contrast Dental Models

📄 Application 📄 Brochure 📄 Usage 📄 Safety Data Sheet

- ✓ Improved flexural modulus and strength
- ✓ Fantastic color and finish that mimics dental stone
- ✓ Easy to separate from thermoforming materials

SprintRay Die & Model 2 Tan represents a big step forward in dental 3D printing modelling materials. Our tan color mimics classic dental stone and features almost no pigment settling, which means you can spend more time printing and less time mixing. Improved adhesion to the build plate is matched by an increase in flexural modulus and strength, providing higher success rates and a reduced chance of breakage.

A reduced odor improves the quality of life for 3D printing models for an overall experience that your practice staff will love. Plus, Die & Model 2 resins are easier to separate from thermoforming materials, saving time and labor for more efficient in-office fabrication workflows. With rapid, repeatable results that are easier than ever to use, Die & Model 2 Tan is helping to bring dental 3D printing into dental practices everywhere.

* When printed on SprintRay Pro with Lustrous Speed profile. [Learn More](#)




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dental supplies

FLEXURAL MODULUS

Higher flexural modulus prevents the model from distorting, which can impact accuracy.

Die and Model 2 Tan

2650 MPa

FLEXURAL STRENGTH

Higher flexural strength ensures that the model doesn't break during normal use.

Die and Model 2 Tan

91.5 MPa

SprintRay Die and Model 2 Tan

Rapidly 3D Print High-contrast Dental Models

[Application](#) [Brochure](#) [Usage](#) [Safety Data Sheet](#)

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* When printed on SprintRay Pro with Ludicrous Speed profile. [Learn More](#)



FLEXURAL MODULUS

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Die and Model 2 Tan

2650 MPa

FLEXURAL STRENGTH

Higher flexural strength ensures that the model doesn't break during normal use.

Die and Model 2 Tan

91.5 MPa


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SprintRay Die and Model 2 Gray

Rapidly 3D Print Models for Aligner Production

[Application](#) [Brochure](#) [Usage](#) [Safety Data Sheet](#)

- ✓ Improved flexural modulus and strength
- ✓ Print up to eight full arch models in just 15 minutes*
- ✓ High-contrast color for maximum visibility of small details
- ✓ Easy to separate from thermoforming materials

SprintRay Die & Model 2 Gray represents a big step forward in dental 3D printing modelling materials. The gray color offers extremely high color contrast to help illustrate details. This new resin features almost no pigment settling, which means you can spend more time printing and less time mixing. Improved adhesion to the build plate is matched by an increase in flexural modulus and strength, providing higher success rates and a reduced chance of breakage.

A reduced odor improves the quality of life for 3D printing models for an overall experience that your practice staff will love. Die & Model 2 Gray features an improved color tone, making it easier than ever to use digital technology to perform advanced restorative dentistry. With rapid, repeatable results that are easier than ever to use, Die & Model 2 Gray is helping to bring dental 3D printing into dental practices everywhere.

* When printed on SprintRay Pro with Ludicrous Speed profile. [Learn More](#)



FLEXURAL MODULUS

Higher flexural modulus prevents the model from distorting, which can impact accuracy.

Die and Model 2 Gray

2650 MPa

FLEXURAL STRENGTH

Higher flexural strength ensures that the model doesn't break during normal use.

Die and Model 2 Gray

91.5 MPa



SprintRay Study Model White 2

Rapid, pure-white models for patient presentation

Application [Safety Data Sheet](#)

SprintRay Study Model White 2 is a special material formulation that provides outstanding color, clarity, and production speed, making it perfect for patient presentation. With a high curing efficiency, you can offer same-day mockups and waxups. Plus, get pure white prints every time thanks to an improved color formulation that doesn't discolor during post-processing.

- ✓ Wow patients with same-visit mockups and waxups
- ✓ Print full-arch models in just 18 minutes
- ✓ Pure white color, even after post-curing

PRODUCTION TIME

Higher speed means faster model production, allowing for same-day waxup and diagnostic models.

Study Model White 2

17 Minutes



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SprintRay EU Castable Red

Print crowns, bridges and frameworks of all types.

[Safety Data Sheet](#) [Instructions for use](#)

- ✓ Easy to work with and excellent precision
- ✓ Suitable for casting dental die caps, substructures, crowns and more
- ✓ Burns cleanly and leaves no residue after burnout

FLEXURAL STRENGTH

shape or tears. High elongation is critical for indirect bonding.

SprintRay EU Castable Red

68 MPa

SprintRay's EU Castable Resin allows you to quickly and accurately print models for use in investment casting. This material is easy to work with and leaves no residue after the burnout process.

New

SprintRay IDB 2

Bond a full arch of braces in just a few minutes

[Safety Data Sheet](#) [Instructions for use](#)

- ✓ High tear resistance, flexibility, and translucence
- ✓ Improved formula for accurate placement
- ✓ Biocompatible, FDA-compliant material

SprintRay Indirect Bonding 2 resin features exemplary tear resistance and translucence, making it perfect for rapid bracket placement. Improved mechanical properties allow orthodontists to design thinner trays with greater accuracy, making the indirect bonding process rapid and cost-effective.



ELONGATION

A higher elongation value means that the material can flex and stretch before it loses its shape or tears. High elongation is critical for indirect bonding appliances.

SPRINTRAY IDB 2



FORMLABS IBT




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SprintRay Gingiva Mask

3D Print Accurate Soft Tissue Replicas

[Safety Data Sheet](#) [Instructions for use](#)

- ✓ Excellent Tear Resistance
- ✓ Flexible & easy to trim
- ✓ Biocompatible, FDA-compliant material

Gingiva Mask is a flexible yet durable material intended for use with SprintRay model materials to mimic the look and feel of natural gum tissue. Gingiva Mask has a high tear resistance and is easy to trim for optimal restorative planning.

Why Go Open-Certified?

1st

Maximum Flexibility

SprintRay resins offer great mechanical properties at a low price, but we believe that freedom of choice for our customers leads to the best results. With SprintRay, you can make the materials choice that's right for your practice, whether it's KeyStone, BEGO, or one of our other resin partners.

2nd

Always Cutting-Edge

We want our printers to be the most advanced technology in your office. 3D printing offers incredible versatility, but we believe that materials breakthroughs will drive the next five years of printing innovation. So we certify select partner resins to make sure your SprintRay Pro will be on the leading edge.

3rd

Hassle Free Handling

Not everyone is a resin chemist, so our research team works constantly to test and verify the efficacy and accuracy of partner resins before we release them to the public. You can print with any certified resin without worrying about compromises to dimensional accuracy or fiddling with complicated cure timings.



Clinical Flexibility

The dental 3D printing industry is rapidly expanding, changing, and improving. Within the rapid landscape, advancements in materials science are instrumental in bringing new treatment indications to 3D printing. SprintRay's unique resin system encourages the use of certified partner resins, meaning you can use denture materials from DENTCA, soft splint nightguard materials from KeyStone, and cost-effective model resins from SprintRay all on the same printer. Maximum flexibility in your practice means you can use your 3D printer for more treatments, more of the time.

Always Cutting-Edge

Buying a SprintRay 3D printer is a long-term investment. With SprintRay's open-certified resin system, today's treatment options are only the beginning. As advances in materials science push the industry forward, your SprintRay printer keeps pace, adding new materials with no additional work required from the clinician.

Some of the most important steps forward for dental 3D printing come from the materials industry. While SprintRay provides high-quality resin at a great price, unique innovations often come from outside OEMs.

With the SprintRay open certified resin system, you never have to worry that you'll be left out of critical advancements in 3D printing materials.



Freedom of choice

The SprintRay engineering team works together with our material partners to test, validate, and release curing profiles. Extensive research is done to verify dimensional accuracy and biocompatibility of 3rd party resins before they are released to customers.

With no extra work required, keeping up with new advances in resin science is as easy as updating your software. You'll never have to worry about fussing with custom resin profiles or guessing at correct curing times.

With the open certified resin system, you can spend less time fiddling with your technology and more time helping patients.



Compatible 3rd Party Resins

The SprintRay engineering team works together with our material partners to test, validate, and release curing profiles. This is the list of all compatible 3rd party resins with our systems:



SprintRay Pro 95 and SprintRay Pro 55

[Learn More](#)

NextDent

- NextDent Ortho Clear
- NextDent Denture Base
- NextDent C&B
- NextDent MFH Bleach
- NextDent MFH N2

Dreve

- FotoDent IBT
- FotoDent Guide

Bego

- VarseoSmile CrownPlus
- VarseoSmile Temp

DENTCA

- DENTCA Denture Teeth – A1
- DENTCA Denture Teeth – A2
- DENTCA Denture Teeth – B1
- DENTCA Denture Base 2 – Light Pink
- DENTCA Denture Base 2 – Dark Pink
- DENTCA Denture Base 2 – Reddish Pink
- DENTCA Denture Base 2 – Original Pink
- DENTCA Denture Teeth – A3
- DENTCA Denture Teeth – A3.5
- DENTCA Denture Teeth – B2
- DENTCA Crown & Bridge A1
- DENTCA Crown & Bridge A2
- DENTCA Crown & Bridge A3
- DENTCA Crown & Bridge A3.5
- DENTCA Crown & Bridge B1
- DENTCA Crown & Bridge B2
- DENTCA Crown & Bridge BL2

KeyStone

- KeySplint Soft
- KeyGuide
- KeyTray
- KeyCast
- TasteMaske
- TasteOrtho IDB



SprintRay Pro Cure

[Learn More](#)

NextDent

- NextDent Ortho Clear
- NextDent Denture Base
- NextDent Ortho IBT
- NextDent Tray
- NextDent C&B
- NextDent MFH Bleach
- NextDent MFH N2
- NextDent Castable
- NextDent Ortho Rigid
- NextDent Model

DENTCA

- DENTCA Denture Teeth – A1
- DENTCA Denture Teeth – A2
- DENTCA Denture Teeth – B1
- DENTCA Denture Base 2 – Light Pink
- DENTCA Denture Base 2 – Dark Pink
- DENTCA Denture Base 2 – Reddish Pink
- DENTCA Denture Base 2 – Original Pink
- DENTCA Denture Teeth – A3
- DENTCA Denture Teeth – A3.5
- DENTCA Denture Teeth – B2

KeyStone

- KeySplint Soft
- KeyGuide
- KeyTray
- KeyOrtho IDB

Bego

- VarseoSmile CrownPlus
- VarseoSmile Crown Temp



MoonRay S/D

[Learn More](#)

NextDent

- NextDent Ortho Clear
- NextDent Denture Base
- NextDent Ortho IBT
- NextDent Tray
- NextDent C&B
- NextDent MFH Bleach
- NextDent MFH N2
- NextDent Castable
- NextDent Ortho Rigid
- NextDent Model

Dreve

- FotoDent IBT
- FotoDent Guide
- FotoDent Model

DENTCA

- DENTCA Denture Teeth – A1
- DENTCA Denture Teeth – A2
- DENTCA Denture Teeth – B1
- DENTCA Denture Base 2 – Light Pink
- DENTCA Denture Base 2 – Dark Pink
- DENTCA Denture Base 2 – Reddish Pink
- DENTCA Denture Base 2 – Original Pink
- DENTCA Denture Teeth – A3
- DENTCA Denture Teeth – A3.5
- DENTCA Denture Teeth – B2
- DENTCA Crown & Bridge A1
- DENTCA Crown & Bridge A2
- DENTCA Crown & Bridge A3
- DENTCA Crown & Bridge A3.5
- DENTCA Crown & Bridge B1
- DENTCA Crown & Bridge B2
- DENTCA Crown & Bridge BL2

KeyStone

- KeySplint Soft
- KeyGuide
- KeyTra