



Germany's  
favorite  
3D Resin



# optiprint<sup>®</sup> premium resins

Germany's favorite 3D Resin

## The perfect choice for your 3D printer

Where you as a user always expect new materials for the growing number of applications for printing technology, dentona supplies you with premium resins from their **optiprint** series that you can use for all device classes.

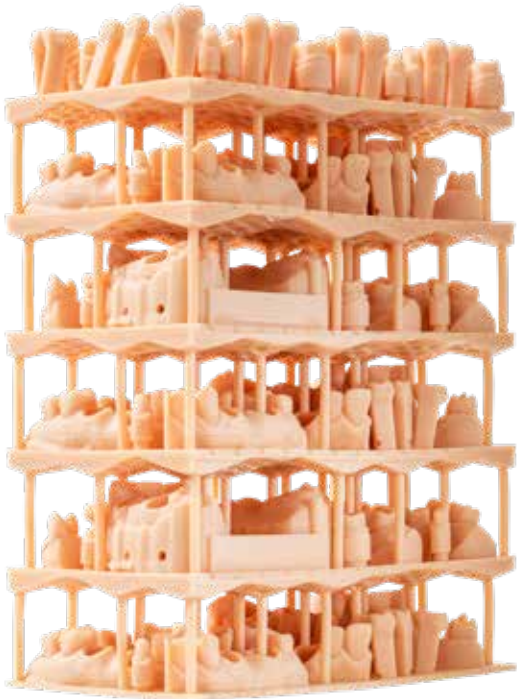
Convince yourself of the latest **optiprint** innovations: The clear-flexible 3D printing resin for bite splints; the translucent 3D printing resin for crowns and bridges and a premium resin for lifelike denture bases.

## > Model production

# optiprint® model

Germany's favorite 3D Resin

The opaque, light and moisture stable **optiprint** model resin was especially designed for the model production. The version in golden brown color offers the optimal visibility of the margin line and combined with the abrasion resistance of the component it grants a plaster-like model processing. The range has been expanded to include the environmentally friendly and more economic additional packaging unit in the form of a 10 kg canister.



The 3D printer now enables us to produce a physical model from the impression data ourselves, that meets all of our requirements: Highest detail reproduction and dimensional stability. We have been working with the 3Shape software for years and could continue the usual processes without any changes when using the 3D printer. The user is not committed to one system with a 3D printer from dentona. The slicing software supplied with the printer reads every STL file enabling a smooth integration of the additive manufacturing in the process.

Alexander von Fehrentheil, vFM Dentallabor GmbH, Hamburg

## > Order information

Product		Description	Item No.
<b>optiprint</b> model (385-405 nm)	<b>NEW</b>	ivory 10 kg / 9100 ml	48048
<b>optiprint</b> model (385-405 nm)		ivory 1 kg / 910 ml	48051
<b>optiprint</b> model (385-405 nm)		ivory 500 g / 455 ml	48053
<b>optiprint</b> model (385-405 nm)	<b>NEW</b>	golden brown 10 kg / 9100 ml	48049
<b>optiprint</b> model (385-405 nm)		golden brown 1 kg / 910 ml	48050
<b>optiprint</b> model (385-405 nm)		golden brown 500 g / 455 ml	48052
<b>optiprint</b> model (385-405 nm)	<b>NEW</b>	grey 10 kg / 9100 ml	48214
<b>optiprint</b> model (385-405 nm)		grey 1 kg / 910 ml	48212
<b>optiprint</b> model (385-405 nm)		grey 500 g / 455 ml	48213

# optiprint® sprint

Germany's favorite 3D Resin

optiprint sprint is the first fast model resin with plaster look. Due to its lower viscosity the print speed increases.

## > Order information

Product	Description	Item No.
optiprint sprint (385-405 nm)	golden brown 1 kg / 910 ml	48370



# optiprint® express

Germany's favorite 3D Resin

optiprint express is the first fast model resin optimized for 405 nm. The material shortens the printing time thanks to shorter exposure times.

## > Order information

Product	Description	Item No.
optiprint express (405 nm)	golden brown 1 kg / 910 ml	48380



# optiprint® model align

Germany's favorite 3D Resin

This is a special material variant with a high hardness for orthodontic as well as aligner models. The special resin is matched to the requirements of the thermoforming technology on the model and guarantees the technician a high level of process reliability. For example **optiprint** model align is especially suitable for the model production as part of the in-house production of aligners.



We get a precise model of the oral situation from the 3D printer as basis e.g. for the production of splints for therapeutic use or dentures.

Dr. Clemens Fricke, Orthodontist, Dortmund



## Special features

- Surface quality like a plaster model
- Matched to the thermoforming technology
- Ideal for in-house aligner production



## > Order information

Product	Description	Item No.
<b>optiprint</b> model align (385-405 nm)	light yellow 1 kg / 910 ml	48060

## > Flexible gingival mask

# optiprint® gingiva 2.0

Germany's favorite 3D Resin

The special resin **optiprint** gingiva 2.0 has been developed for the production of flexible gingival masks with the 3D printing technology. The colour of **optiprint** gingiva 2.0 is very similar to the natural gingiva and simplifies the creation of aesthetic dentures for the dental technician. **optiprint** gingiva 2.0 is the ideal complement to the special **optiprint** model resin.



### Special features

- Functional upgrade of the model
- Natural reproduction of the gingiva
- Flexible and tear-resistant



## > Order information

Product	Description	Item No.
<b>optiprint</b> gingiva 2.0	gingiva 1 kg / 910 ml	48072
<b>optiprint</b> gingiva 2.0	gingiva 500 g / 455 ml	48073

## > Bracket positioning

# optiprint® I-B-T 385

Germany's favorite 3D Resin

The 3D printing resin I-B-T is specially designed for the additive manufacturing of transfer templates for bracket positioning. The transfer templates can be very easily designed with a CAD software. The practitioner benefits from the increased accuracy, safety and speed when using the brackets. The material is very flexible and deliberately tearable for the easy removal of the template.



### Special features

- Comfortable and safe
- Flexible and deliberately tearable
- Medical device class I



Medical device class I

## > Order information

Product	Description	Item No.
optiprint I-B-T 385	clear transparent 1 kg / 910 ml	48100

## > Bite splints

# optiprint® clara

Germany's favorite 3D Resin

**optiprint** clara is the clear-flexible 3D printing resin for stable, high-precision bite splints, which, due to their temperature-dependent features, are also extremely comfortable to wear. **optiprint** clara impresses with its indication-based firmness and high break resistance. The great properties of the splint also allow an optimally adjusted flexibility in the patient's mouth, so that he finds it very comfortable to wear the splint. The material is designed to avoid any risk of spalling or broken splints. **optiprint** clara is resistant to oral conditions as well as tasteless and fulfills all requirements of the MDR (Medical Device Regulation) within the corresponding overall process.



“The digital production of our splints is done by the same employee that previously fabricated the splints conventionally. She didn't have any CAD / CAM experience and yet, the changeover only took one day.

MDT Oliver Schulz, Solident GmbH, Schwerte



### Special features

- No risk of broken splints
- Clear-flexible, invisible
- Tasteless

Medical device class IIa

## > Order information

Product	Description	Item No.
<b>optiprint</b> clara (385-405 nm)	clear transparent 1 kg / 910 ml	48220
<b>optiprint</b> clara (385-405 nm)	clear transparent 500 g / 455 ml	48221

## > Implant drill guides

# optiprint® guide

Germany's favorite 3D Resin

**optiprint** guide is a clear transparent, light-curing premium resin for the production of implant drill guides. The material is characterized by its exceptional UV stability in combination with reliable bending / tensile strength. **optiprint** guide grants high process robustness and meets the highest demands on handling without being brittle. The components made from **optiprint** guide can be sterilized by the help of steam. They remain dimensionally stable and almost free of discoloration. The resin has a low viscosity.



### Special features

- Clear-transparent
- Very high UV stability
- Proven process reliability
- Autoclavable



Medical device class I

## > Order information

Product	Description	Item No.
<b>optiprint</b> guide 385	clear transparent 1 kg / 910 ml	48000
<b>optiprint</b> guide 385	clear transparent 500 g / 455 ml	48001
<b>optiprint</b> guide 405	clear transparent 1 kg / 910 ml	48010
<b>optiprint</b> guide 405	clear transparent 500 g / 455 ml	48011

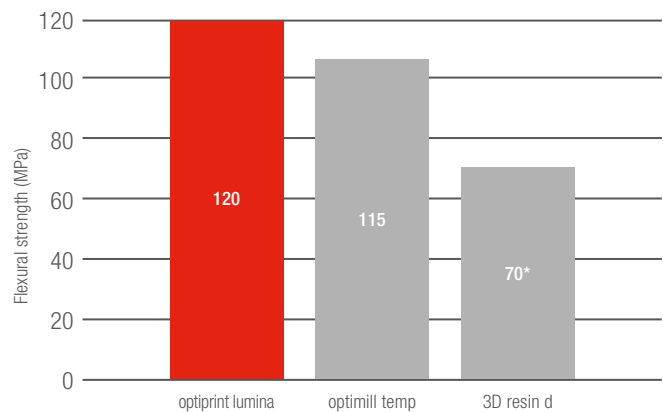
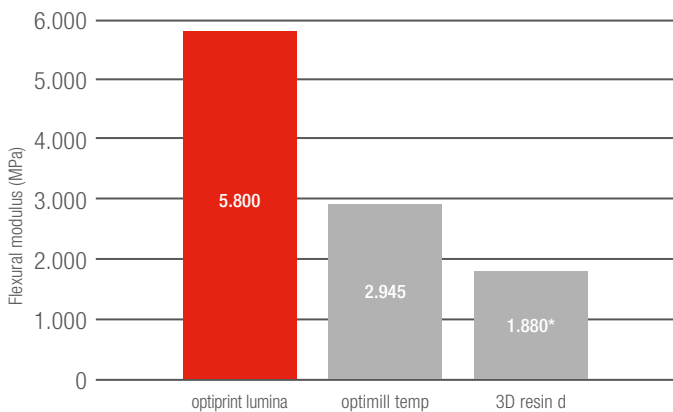


# > Teeth, crowns and bridges

## optiprint<sup>®</sup> lumina

Germany's favorite 3D Resin

optiprint lumina is the translucent 3D printing resin for temporary crowns and bridges. As a highly filled 3D printing resin, optiprint lumina combines excellent edge adjustment with strength and aesthetics. Thanks to the available tooth colors (VITA tooth color scale) high aesthetic demands are met without additional reworking. In addition the restorations can be easily individualized with composite if necessary. Editing and polishing are extremely easy. A sedimentation of the material in the bottle or in the material tray is excluded.



\* Information from the manufacturer

### Special features

- No risk of sedimentation
- Natural tooth aesthetics thanks to VITA tooth colors
- Effortless customization



Medical device class IIa

### > Order information

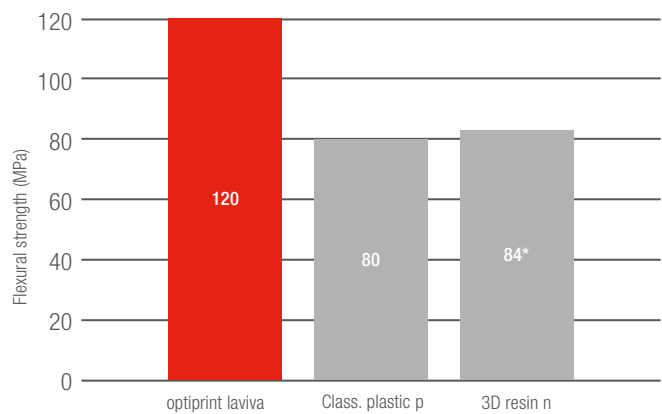
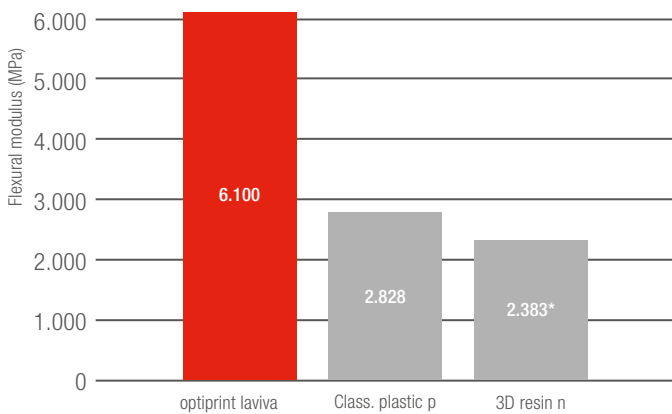
Product	Description	Item No.
optiprint lumina (385-405 nm)	Vita A1-D4, hollywood white 1 kg / 910 ml	see webshop
optiprint lumina (385-405 nm)	Vita A1-D4, hollywood white 500 g / 455 ml	see webshop

## > Denture bases

# optiprint® laviva

Germany's favorite 3D Resin

optiprint laviva is the new 3D printing resin for lifelike dentures. Thanks to a natural translucent coloring and the high mechanical strength dentures can be printed that delight every patient with their appearance and stability. If necessary the gingival areas can be characterized by the help of composite or plastic and a little more naturalness can be worked out. The printed denture base is torsion-resistant and also safely withstands high loads. Any sedimentation of the material in the bottle or in the material tray is excluded.



\* Information from the manufacturer

### Special features

- Naturally translucent aesthetics
- Particular mechanical strength
- No risk of sedimentation



Medical device class IIa

## > Order information

Product	Description	Item No.
optiprint laviva (385-405 nm)	light-pink 1 kg / 910 ml	48230
optiprint laviva (385-405 nm)	light-pink 500 g / 455 ml	48231
optiprint laviva (385-405 nm)	dark-pink 1 kg / 910 ml	48232
optiprint laviva (385-405 nm)	dark-pink 500 g / 455 ml	48233
optiprint laviva (385-405 nm)	red-brown 1 kg / 910 ml	48234
optiprint laviva (385-405 nm)	red-brown 500 g / 455 ml	48235

## > Individual impression trays

# optiprint<sup>®</sup> tray

Germany's favorite 3D Resin

optiprint tray has been consequently developed and optimized for the additive manufacturing of individual impression trays from the point of view of mechanics, polymerization behavior and optics. Due to the high translucency of the 3D printed part, the practitioner always has control during the impression process and the removal of the tray out of the mouth.



### Special features

- Coordinated curing depth for high build speeds
- Dimensionally stable
- High translucency for maximum control



Medical device class I

## > Order information

Product	Description	Item No.
optiprint tray 385	lightblue 1 kg / 910 ml	48021
optiprint tray 385	lightblue 500 g / 455 ml	48025
optiprint tray 385	green 1 kg / 910 ml	48020
optiprint tray 385	pink 1 kg / 910 ml	48023
optiprint tray 385	orange 1 kg / 910 ml	48022
optiprint tray (385 - 405 nm)	viper green 1 kg / 910 ml	48352
optiprint tray (385 - 405 nm)	ocean blue 1 kg / 910 ml	48354
optiprint tray (385 - 405 nm)	magic black 1 kg / 910 ml	48350
optiprint tray HR (405 nm)	blue 1 kg / 910 ml	48032
optiprint tray HR (405 nm)	blue 500 g / 455 ml	48033

**NEW**

## > Model casting, crowns and bridges

# optiprint® cast nf

Germany's favorite 3D Resin

The dental 3D printing resin **optiprint** cast nf takes the CAD / Cast process to a new level. This residue-free burn out premium resin impresses with its precision, smooth surfaces and distortion-free cast objects - the basis for high-precision model cast frameworks and metallic crowns and bridges. Very delicate support structures guarantee distortion-free cast parts. Smooth surfaces simplify the manual work steps after casting (e.g. polishing). Even the finest surface structures are reproduced true to detail.



40%  
time saving

20min  
construction time

0,87 EUR  
material costs

### Special features

- Residue-free burn out
- Particularly suitable for the speed casting process
- Smooth, waxy finish
- Enables finest support structures and distortion-free frameworks



## > Order information

Product	Description	Item No.
optiprint cast nf (385-405 nm)	red 1 kg / 910 ml	48400
optiprint cast nf (385-405 nm)	red 500 g / 455 ml	48401

## > Quality assurance in the process chain

# optiprint<sup>®</sup> match

Germany's favorite 3D Resin

This proven 3D printing resin was specially developed for the digital documentation of the manufacturing process using 3D printing for quality management. Without further surface conditioning the part printed with **optiprint match** can be rescanned to match the data with the initial file of the work.

The user thus retains control over the accuracy of his digital manufacturing process and valuable support in investigating the cause in the case of deviations. **optiprint match** increases the quality assurance within the production. The eye-friendly, soft matt brown color of **optiprint match** provides a homogeneous surface image of the printed part.



### Special features

- Ideal for documenting the process quality
- Good scannability without surface conditioning
- Homogeneous component surfaces



## > Order information

Product	Description	Item No.
optiprint match (385 - 405 nm)	light brown 1 kg / 910 ml	48120

## > Controlled light curing and cleaning

# Otoflash G171

## Flash unit with protective gas connection



The very powerful universal light cure unit is equipped with a shielding gas connection avoiding the oxygen inhibition on the surfaces.

The user receives adhesive-free components after the printing process, the removal of the inhibition layer is no longer applicable. To ensure biocompatibility and optimal post curing, dentona provides individual application recommendations for their **optiprint** premium resins and the device.

**Biocompatibility and MDR compliance of medical devices are only ensured at professional standards (light curing by the help of protective gas) in an approved device.**

### Technical specifications

Size of the light curing space	120 x 120 x 50 mm
Number of light sources	2 flash lamps of 100 W each
Nominal voltage	100, 117, 230 Volt AC, switchable
Nominal frequency	50 / 60 Hz
Power consumption	250 W
Spectral distribution	280-700 nm, maximum between 400 and 500 nm
Dissipated power	200 W
Flash rate	10 flashes per second
Digital timer	adjustable from 1 to 9,999 flashes
Dimensions	310 x 310 x 140 mm
Weight	appr. 7 kg

## rapidshape cure & wash

The **RS wash** is a fully automatic cleaning unit that safely and easily cleans all 3D printed parts within approx. 6-8 minutes. Thanks to the connection to the RS printer, the appropriate cleaning program is selected automatically. The result is a process-reliable, simple and environmentally friendly two-stage pre- and final cleaning (patent pending). The **RS cure** light curing unit with its powerful LEDs is an important process component ensuring the requirements for the production of medical devices. With the integrated vacuum technology, it ensures 360° homogeneous curing of the 3D printed parts.

	rapidshape cure	rapidshape wash
Dimensions	230 x 270 x 450 mm	230 x 270 x 380 mm
UV chamber	130 x 75 x 60 mm	-
Cleaning chamber	-	130 x 75 x 60 mm
Cleaning cartridges	-	800 ml





