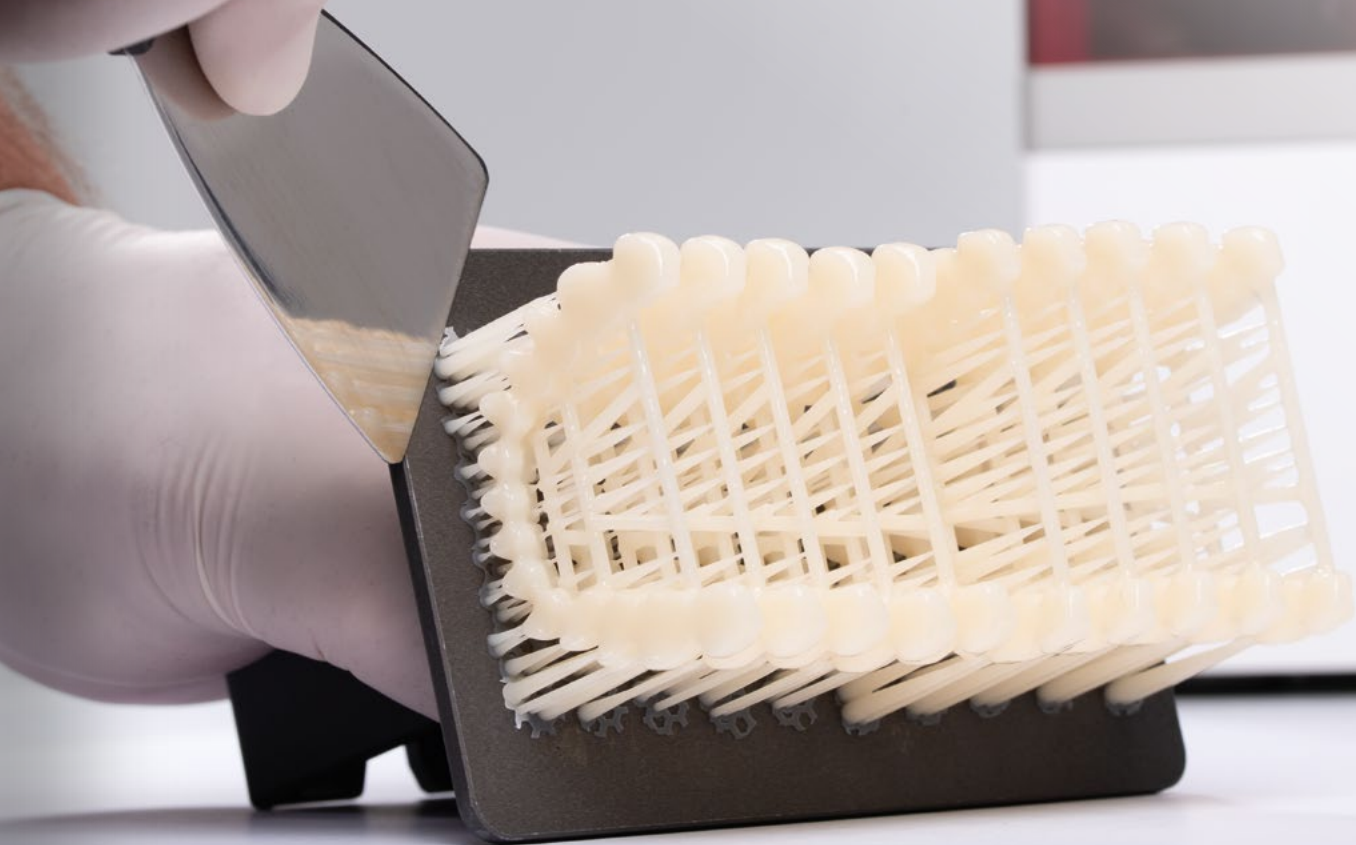


VITA

Digital Dentures: Your Economy Level



VITA VIONIC® SOLUTIONS

Your Next Level

Produce printed dentures quickly and cost effectively with impressive quality.





Digital Dentures – Your Next Level

VITA VIONIC® SOLUTIONS

Your Economy Level.

Are you following the exciting journey of digital dentures? **No matter where you start with VITA VIONIC RESINS, you can take your printed dentures to the next level, in terms of cost savings, maximum efficiency, impressive quality results and economical process optimization.** We offer perfectly coordinated system components for your workflow, tailored to your individual requirements.

Time saving and highly efficient: With the VITA VIONIC Economy Level, you benefit from the cost advantages of all aspects of printing technology. This allows you to produce cost-effective restorations quickly and reliably. All VITA VIONIC printing materials meet the high VITA quality standard. The printed denture bases have impressive impact resistance, and the printed tooth elements offer a match with the VITA shade guide. Thanks to the high quality of the material, they can be used as final denture teeth and for temporary crowns and bridges.

Process reliability: The “all-in-one solution” with perfectly coordinated components ensures a seamless process. The VITA VIONIC RESINS are compatible with a wide range of commonly used printers and post-curing units. You can rely on accurate and repeatable results. Benefit from over 100 years of VITA expertise – we will support you on your way to the next level.



[Go to case reports](#)

Cost effective

Fast and cost-effective production of immediate, replacement and final dentures, as well as temporary crowns/bridges using 3D printing.

Efficient

Reliable, reproducible fabrication of multiple dentures in a single process. Accelerated production and quality assurance through automated, validated processes and material properties.

Process secure

Benefit from perfected matched materials with proven VITA quality. Count on reliable workflows from a single source, combined with validated printers and post-curing units.



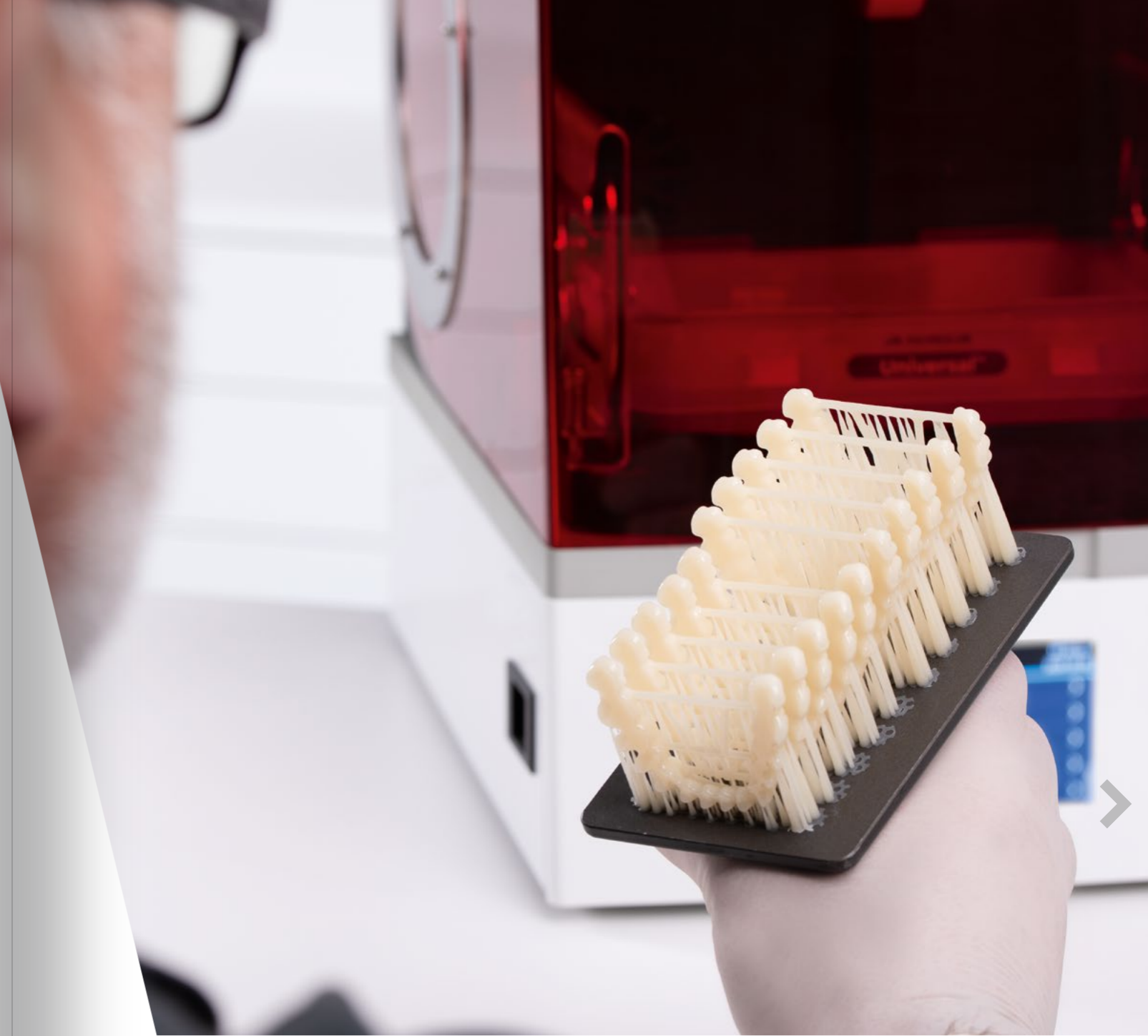
“VITA VIONIC RESINS are excellent materials for printing. The processing was easy, and very little effort was needed to achieve a high gloss finish by hand.”

Andreas Nowak
Wade Dental Laboratories Limited
United Kingdom

Printed workflow.

Your requirements

- A workflow that enables the fast and cost-effective fabrication of several dentures at the same time
- Impressive quality, as demonstrated by its impact resistance and high abrasion resistance
- Reliable fit achieved by taking into account the shrinkage of the different resins in the printer templates
- Easy-to-process printed dentures. Polishing and customization should be possible in no time at all
- No intense odors when the pressurized cylinders are opened
- Printing resins with a shelf life of over two years



1. CAD process



VITA VIONIC® DIGITAL VIGO
Denture Tooth Library

2. Try-in: printing



VITA VIONIC®
TRY-IN RESIN

3. Printing the final denture base



VITA VIONIC®
BASE RESIN IMPACT

4. Printing denture teeth



VITA VIONIC®
DENT RESIN

5. Bonding teeth in the base



VITA VIONIC®
BASE RESIN IMPACT

6. Individualizing



VITA AKZENT® LC
VITAVM®LC flow

Validated devices.



VITA VIONIC® TRY-IN RESIN



VITA VIONIC® BASE RESIN IMPACT



VITA VIONIC® DENT RESIN

Validated printers

| | VITA VIONIC® TRY-IN RESIN | VITA VIONIC® BASE RESIN IMPACT | VITA VIONIC® DENT RESIN |
|------------------------------------|---------------------------|--------------------------------|-------------------------|
| ASIGA Max/Mini | ☑ | ☑ | ☑ |
| ASIGA Max 2 | ☑ | ☑ | ☑ |
| ASIGA Ultra | ☑ | ☑ | ☑ |
| ASIGA Pico2 | ☑ | ● | ● |
| ASIGA PRO2 | ☑ | ● | ● |
| ASIGA PRO 4K | ☑ | ☑ | ☑ |
| Rapid Shape D10/D20 Series | ☑ | ☑ | ☑ |
| Rapid Shape D30/D40 Series | ☑ | ☑ | ☑ |
| Rapid Shape D50+ Series | ☐ | ☐ | ☐ |
| Rapid Shape D70/D90 Series | ☑ | ● | ● |
| Straumann P Series | ☑ | ☐ | ☑ |
| Ivoclar PrograPrint PR5 | ☑ | ● | ☑ |
| MICROLAY Versus | ☑ | ☐ | ☑ |
| Glidewell Fastprint.io | ● | ● | ☑ |
| Miicraft Alpha Series | ● | ☐ | ● |
| Miicraft Prime/Hyper Series | ● | ☐ | ● |
| Miicraft Ultra Series | ☑ | ● | ● |
| W2P SolFlex | ☑ | ☑ | ☑ |
| RAYSHAPE Edge E2 | ● | ☐ | ☐ |

☑ successfully validated ☐ in progress ● on request



VITA VIONIC® TRY-IN RESIN



VITA VIONIC® BASE RESIN IMPACT



VITA VIONIC® DENT RESIN

Validated printers

| | VITA VIONIC® TRY-IN RESIN | VITA VIONIC® BASE RESIN IMPACT | VITA VIONIC® DENT RESIN |
|--------------------------------|---------------------------|--------------------------------|-------------------------|
| Ackuretta SOL | ● | ● | ☐ |
| Aidite CPD-100 | ● | ● | ☑ |
| Shining 3D Accu-Fab D1s | ☐ | ● | ● |
| Shining 3D Accu-Fab L4D | ☐ | ● | ● |

Validated post-curing units

| | | | |
|----------------------------------|---|---|---|
| NK Optik Otoflash G171 N2 | ☑ | ☑ | ☑ |
| NK Optik Otoflash 250 | ☑ | ☐ | ☑ |
| Rapid Shape RS cure | ☑ | ☑ | ☑ |
| Rapid Shape RS cure XL | ☑ | ☐ | ☑ |
| Straumann P Cure | ☑ | ☐ | ☑ |
| Ivoclar PrograPrint Cure | ☑ | ● | ☑ |
| Glidewell iLuxCure Dental | ● | ● | ☑ |
| Dreve PCU LED N2 | ☐ | ● | ● |
| Ackuretta CURIE Plus | ● | ● | ☐ |

Validated washing units

| | | | |
|-----------------------------------------|---|---|---|
| Ultrasonic Bath Bandelin Sonorex | ☑ | ☑ | ☑ |
| Rapid Shape RS wash | ☑ | ☑ | ☑ |
| Ivoclar PrograPrint Clean | ● | | ☑ |

☑ successfully validated ☐ in progress ● on request

1. CAD process

VITA VIONIC® Denture Tooth Libraries

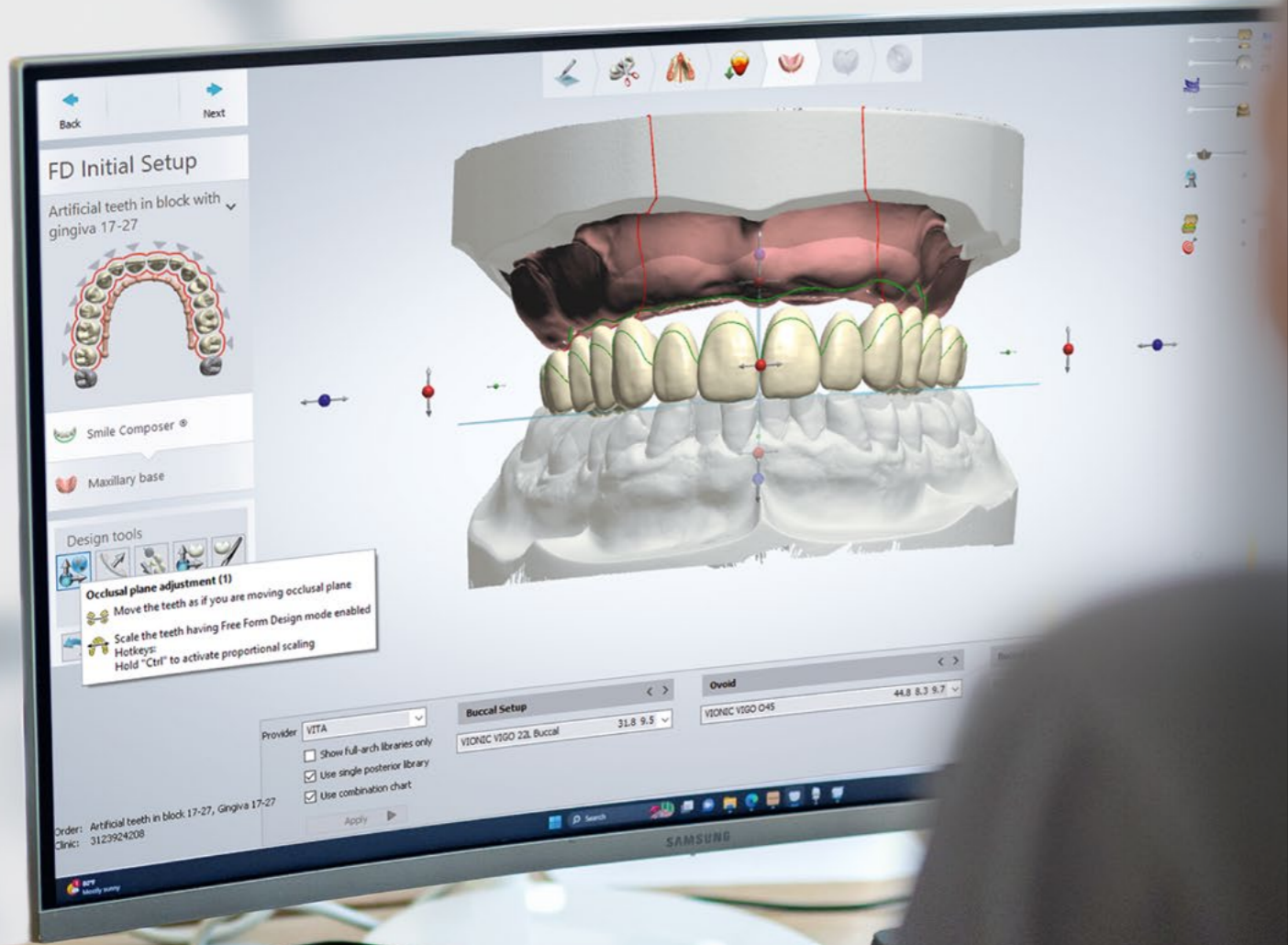
Time-saving denture setups with seven presets.

VITA VIONIC VIGO denture tooth libraries: seven predefined setup concepts are available for designing full dentures using VITA VIONIC VIGO denture teeth. That means that monoblock try-ins and denture bases can be fabricated quickly and easily using conventional open milling and 3D printing systems. The VITA VIONIC VIGO denture tooth can then be inserted easily and accurately. Make the most of the VITA tooth design expertise and the largest selection of setup concepts.

VITA VIONIC DIGITAL VIGO denture tooth libraries: the extended version of the VITA Denture Tooth Library also includes an STL data export function for complete denture setups (try-in dentures) or for separate tooth elements and base designs. Depending on preference, dentures fabricated using the multifunctional tooth geometries can be milled from discs or fabricated using a 3D printer. In this way, VITA VIONIC DIGITAL VIGO provides new, flexible options for digital workflows.

// VITA VIONIC tooth databases are the only ones worldwide that include four different occlusion concepts. In addition to the curved variants, there are two straight setup variants. Here I have the unique opportunity to digitally plan and produce well over 80% of my patient cases."

Urban Christen,
Dental prosthetics practice
Switzerland



Flexible

Supports the digital setup of partial and full dentures with seven concepts for all bite classes. Can be used with both the VITA VIONIC VIGO denture tooth and with milled or printed restorations.

Easy

Preset initial suggestions minimize the need for manual reworking.

Fast

Dentures can be quickly and easily fabricated using a variety of conventional open milling and 3D printing systems.








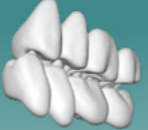



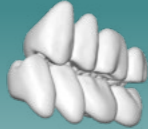



One database. Endless possibilities.


// The VITA VIONIC DIGITAL VIGO denture tooth library is fantastic. It saves us about 15 minutes of design time, and that's a lot! With the design, we establish the foundation for a predictable and smooth workflow. Our recommendation: Everybody should use the VITA library to design digital dentures."

Frans Delfos
Cordent Group
the Netherlands

Your options for denture design

Multifunctional tooth data: seven denture concepts and four bite classes combined in a single library

| Occlusal concepts | | Occlusal position | Skeletal class |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|  Bukkal Curved Set up |  Lingual Curved Set up |  Crossbite |  Bite class I |
|  Bukkal Straight Set up |  Lingual Straight Set up |  Normal bite |  Bite class II/1 |
|  Crossbite |  Dutch Lingualized Occlusion | |  Bite class II/2 |
| |  Prof. Dr. A. Gerber | |  Bite class III |

 New concepts



2. Try-in: printing

VITA VIONIC® TRY-IN RESIN

3D printing material for fabricating try-ins.

Cost-effective

Fast, material-saving and cost-effective fabrication of functional try-ins for partial and full dentures.

Easy to process

Easy to check for fit, function, occlusion and phonetics, as well as easy to polish. Easy individualization for esthetic try-ins possible.

Odorless and long shelf life

Odorless resin that stands out from its competitors due to its long life of three years (Ø BBD two years).



VITA VIONIC® TRY-IN RESIN





3. Printing denture bases

VITA VIONIC® BASE RESIN IMPACT

Impact-resistant 3D printing material for the fabrication of final denture bases.

Take 3D printing to the next quality level with **VITA VIONIC BASE RESIN IMPACT**, an impact-resistant printing material for removable denture bases. The excellent impact resistance of the product reduces the risk of breaking under stress.

In addition to the fracture work, the high flexural strength and optimized modulus of elasticity values ensure a balanced property profile, forming the basis for long-lasting dentures.

Available shades

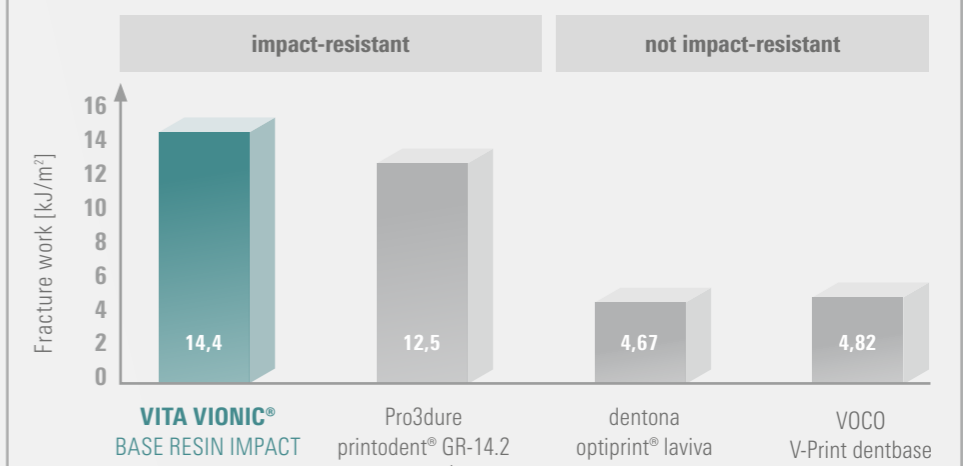
pink and pink translucent

Available package size

1 kg bottles

Tested impact-resistant material

Charpy Test DIN EN ISO 179-1/1



Source: Test laboratory polymerphys IK GmbH, Report no. LID_126612, LID_126614, LID_126615, LID_126617, LID_126618 , 01/2025



Long lasting

Patients benefit from long-lasting dentures, thanks to the impact resistance of the material, which reduces the risk of breaking under stress. Low plaque adhesion contributes to wearing comfort.

Well balanced

The well-balanced mechanical property profile is impressive in terms of fracture work, flexural strength and modulus of elasticity.

Excellent processing

Short printing times, low shrinkage and high fitting accuracy are just as compelling as the great polishing characteristics.



4. Printing denture teeth

VITA VIONIC® DENT RESIN

3D printing material for tooth elements in final partial and full dentures.

Economically printed dental arches and elements that have a high abrasion resistance and remarkable stability, and also meet modern, esthetic demands – **VITA VIONIC DENT RESIN** makes this possible.

VITA PERFECT MATCH offers shade-stable results: You can choose from eight VITA classical shades and the bleached shade OM3. With VIONIC DENT RESIN, you can count on shade accuracy and low susceptibility to discoloration. Good polishing characteristics make the product complete.

Strong and reliable: Thanks to the finely coordinated material composition, the resins exhibit comparatively high abrasion resistance and remarkable stability. As a result, VITA VIONIC DENT RESIN can be used for both final dentures and temporary crowns/bridges.

A wide range of applications: Flexible application options are ensured by both the high quality of the materials and the choice of validated workflows with many commonly used dental printers and post-curing units.

Available shades

Nine VITA classical A1-D4 including one Bleach shade: OM3, A1, A2, A3, A3.5, B1, B3, C2, D3

Available package size

0.5 kg bottles

Esthetic

Available in nine natural-looking, durable shades with a perfect match to the VITA shade guide, reliably meeting the high standards, thanks to the great polishing characteristics.

Durable

The low wear values underscore the quality of the stable and abrasion-resistant restorations.

Versatile

Suitable for permanent denture teeth, as well as temporary crown and bridge restorations, making it highly versatile for use in removable partial and full dentures.



VITA VIONIC® DENT RESIN



True-to-shade. Durable.

Shade fidelity & stability

You can rely on VITA VIONIC RESINS. In addition to the fact that the final cured resins* match the VITA shade guides, long-term esthetics are ensured. VITA VIONIC resins offer lasting shade stability, thanks to their low susceptibility to discoloration.

The low water absorption reduces aging, since environmental influences such as coffee and tea drinks do not affect the shade stability. With a 14-16 $\mu\text{g}/\text{mm}^3$ water absorption level, the product is well below the standard specifications of $> 40 \mu\text{g}/\text{mm}^3$. Conclusion: low susceptibility to discoloration.

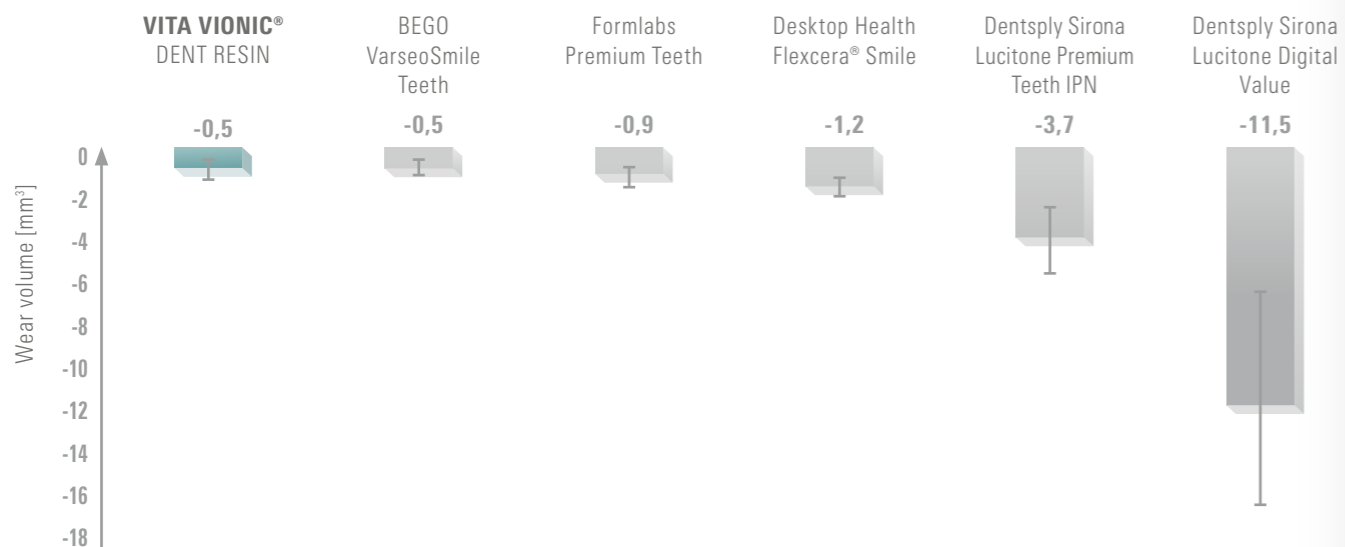


* Due to the technology, the final shade of the printed work is achieved a few days after the curing process is complete.

Abrasion resistance

The graph shows that VITA VIONIC DENT RESIN has a very low wear rate in comparison. This indicates excellent performance, in terms of durability in clinical use. In terms of stability, denture teeth made of VITA VIONIC DENT RESIN are comparable to prefabricated teeth and milled restorations.

Wear volume



Source: Regensburg University Hospital, Polyclinic for Dental Prosthetics, Report no. 2405_01, 01/2025



5. Bonding teeth elements in the base

VITA VIONIC® BASE RESIN IMPACT

Bonding of the printed elements using denture base resin.

Checking the fit

Check that the printed denture teeth are correctly seated in the cavities of the printed denture base in the green state (washed but not post-cured).

Easy bonding

Apply liquid denture base resin to the cavities using a small brush or syringe.

Post-exposure

The two elements in their green state are joined by exposure to light in a validated device.



6. Individualizing

VITAVM®LC flow

Composite for sealing interdental spaces.

VITA VM LC flow is a low-viscosity, light-curing veneering composite for permanent and removable restorations for extraoral application. The flowable consistency and high stability enable precise modelling of the composite. The special material composition ensures simple polishing and produces homogeneous surfaces with brilliant high gloss. In the field of digital dentures, VITA VM LC flow

is used primarily for the reconstruction of gingival areas. The VITA VM LC flow GINGIVA materials were developed especially to reproduce the original gingival situation. The shade spectrum for the materials makes it possible to easily and reliably reproduce the patient's individual gum color. The transparent WINDOW material can then be used to mix the VITA VM LC flow materials.

Precise

The balanced combination of stability and flowability makes precise modeling easy and efficient.

Natural

Natural-looking gum reconstruction, thanks to a selected shade spectrum of the gingiva material.

Durable

The material is characterized by its high durability and surface resistance.



VITA VM®LC flow



6. Individualizing

VITA AKZENT® LC

Stain/Glaze system for optional characterization.

VITA AKZENT LC are light-curing composite stains for reproducing individual shade effects and applying shade corrections. In addition to offering a variety of nuances, the stain system impresses with precise shade application and good shade and gloss retention.

VITA AKZENT LC GINGIVA KIT is ideal for individualizing dental materials that contain polyacrylics. This kit is particularly suitable for denture bases, printed bases made of 3D printing materials and milled bases.

VITA AKZENT LC allows you to customize your prosthesis in detail.

Reliable: The numerous brilliant effect shades of the product line make it possible to reproduce all the shade nuances of natural dentition and gingival areas. A wide range of 14 EFFECT STAINS and eight CHROMA STAINS are available, as well as a glaze. The material also has an impressive gloss and resistance to wear and discoloration.

Simple: The stains can be precisely applied with brushes. Necessary shade adjustments and natural gingival esthetics can be easily achieved.

Efficient: All VITA AKZENT LC line shades have finely tuned viscosities that simplify the workflow. The material can be dosed quickly and safely – whether it is applied as a flat shade or a precise shade effect.

Reliable

Reliably true-to-life reproduction of shade facets of natural dentition, thanks to a wide range of brilliant effect stains and intuitive processing.

Easy

Extremely simple shade modification with a brush stroke, thanks to chroma shades for plannable, systematic control of chromaticity and ideal gingiva esthetics.

Efficient

Efficient processing, thanks to shade effects with pinpoint precision or highly efficient shades applied across a large surface area with ideally matched viscosities.



VITA AKZENT® LC



Suitable solutions for processes.



1. CAD process

VITA VIONIC DIGITAL VIGO Denture Tooth Library



2. Finishing the try-in

VITA VIONIC TRY-IN RESIN



3. Printing denture teeth

VITA VIONIC DENT RESIN



4. Printing denture teeth

VITA VIONIC DENT RESIN



5. Bonding

VITA VIONIC BASE RESIN IMPACT



6. Individualizing

VITA AKZENT LC, VITA VM LC *flow*



We are happy to help.

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VITA Zahnfabrik has been certified, and the following products bear the CE mark

CE0124

VITA VIONIC® BOND, VITA VIONIC® BOND multiDose, VITAVM®LC *flow*, VITA AKZENT® LC

Detax GmbH has been certified in accordance with the Medical Device Directive, and the following products bear the CE mark

CE0483

VITA VIONIC® TRY-IN RESIN, VITA VIONIC® DENT RESIN, VITA VIONIC® BASE RESIN IMPACT

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 Report No. 2405_01, 01/2025

Test laboratory polymerphys IK GmbH, Report no.
 LID_126612, LID_126614, LID_126615,
 LID_126617, LID_126618, 01/2025



More workflow solutions found here



Additional information at
 VITA VIONIC SOLUTIONS
<https://hs.vita-zahnfabrik.com/en/vita-vionic-solutions>



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