IPN 3D™
Digital Denture Teeth

Mould Chart
Optimized for digital design
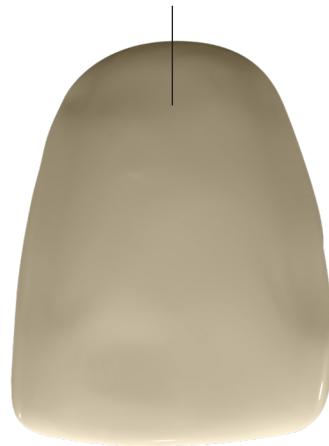
For dental professionals and laboratories

Dentsply
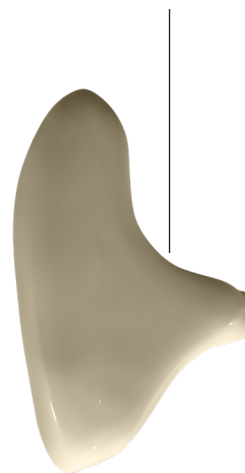Sirona

Designed for Printed and Milled Dentures

IPN 3D™ Digital Denture Teeth bring technological advancement to the denture lab – transforming traditional, highly-aesthetic manufactured teeth for a digital world. Distinctively designed for printed or milled appliances. The digital libraries have been optimized for designers to deliver digital accuracy. A "no-grind design" virtually eliminates intaglio breakthrough.

- **Pre-configured and pre-occluded libraries for quick design**

- **Libraries include combinations for both balanced and lingualized set-ups**

- **Designed for precision mounting**

- **Unique position locator system enables plug-n-play assembly**

- **Simplified process for efficiency and reliability**

- **Permits new and experienced technicians to set-up with accuracy**

- **Designs inspired by traditional Portrait® IPN® denture teeth**

- **Packaged in innovative and time-saving "wax-free" cards**

- **14 anterior and 12 posterior moulds**

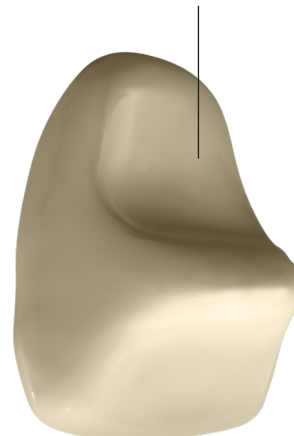- **Smart assortment meets > 80% of patient needs**

Simple and easy, plug-n-play set-up

No-grind design

Unique position locator system

Articulation Key

Anterior Teeth

Anterior Upper
110DP
112HP
120JP
122MP
142QP
163SP
185VP

First Character

Number	Upper / Lower
1	Upper
5	Lower

```
1  4  2  Q  P
↑  ↑  ↑  ↑  ↑
│  │  │  │  • Portrait / Genios Inspired
│  │  │  • Lower Articulation
│  │  • Length of Central
│  • Width on Curve Chart
• Upper / Lower
```

Second Character

Number	Width on Curve	Width on Flat
0	Less than 47mm	Less than 43mm
1	47mm to 48mm	48mm to 49mm
2	48mm to 49mm	44mm to 46mm
3	49mm to 50mm	46mm to 47mm
4	50mm to 51mm	47mm to 48mm
5	51mm to 52mm	48mm to 49mm
6	52mm to 53mm	49mm to 50mm
7	53mm to 54mm	50mm to 51mm
8	54mm to 55mm	51mm to 52mm
9	Greater than 55mm	Greater than 52mm

Third Character

Number	Length of Central
0	Less than 9.80mm
1	9.80mm to 10.40mm
2	10.40mm to 11.00mm
3	11.00mm to 11.60mm
4	11.60mm to 12.20mm
5	12.20mm to 12.80mm
6	Greater than 12.80mm

Fourth Character Lower Articulation

5**D**P
5**H**P
5**J**P
5**M**P
5**Q**P
5**S**P
5**V**P

Fifth Character

Letter	Mould Design
P	Portrait Inspired
G	Genios Inspired

Mould	Size	Width on Curve	Width on Flat	Length of Central	Lower Anterior Articulation
110DP	S	47mm to 48mm	43mm to 44mm	Less than 9.80mm	5DP
112HP	S	47mm to 48mm	43mm to 44mm	10.40mm to 11.00mm	5HP
120JP	M	48mm to 49mm	44mm to 46mm	Less than 9.80mm	5JP
122MP	M	48mm to 49mm	44mm to 46mm	10.40mm to 11.00mm	5MP
142QP	M	50mm to 51mm	47mm to 48mm	10.40mm to 11.00mm	5QP
163SP	L	52mm to 53mm	49mm to 50mm	11.00mm to 11.60mm	5SP
185VP	L	54mm to 55mm	51mm to 52mm	12.20mm to 12.80mm	5VP

Posterior Teeth

Posterior Upper
7L10P
7M10P
7S10P
7L33P
7M33P
7S33P

```
7  M  10  P
↑  ↑  ↑   ↑
│  │  │   • Portrait / Genios Inspired
│  │  • Angle of Occlusion
│  • Size (Small, Medium, Large)
• Upper / Lower
```

First Character

Number	Upper / Lower
7	Upper
9	Lower

Second Character

Letter	Size
S	Small
M	Medium
L	Large

Third Character

Number	Angle of Occlusion
10	10 degree
33	33 degree

Fourth Character

Letter	Mould Design
P	Portrait Inspired
G	Genios Inspired

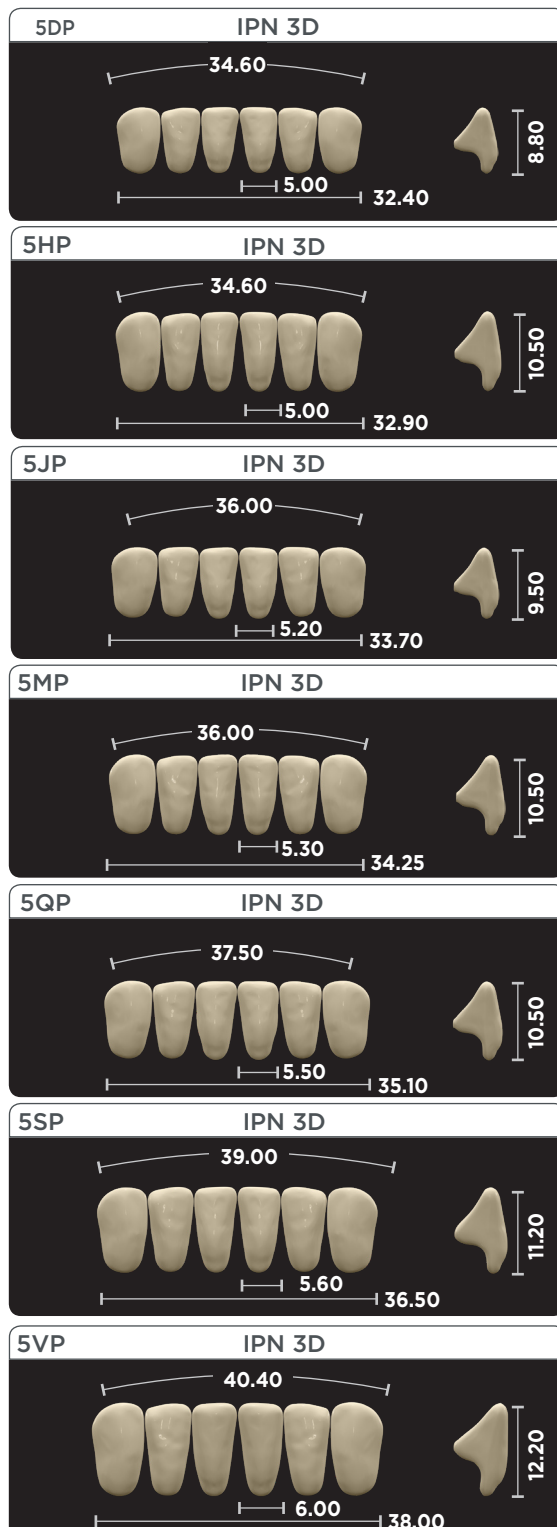| Upper	Lower	Size	1 x 4 Width Upper	1 x 4 Width Lower	Depth Left First Molar Upper	Depth Left First Molar Lower
7L10P	9L10P	L	34.00mm	36.50mm	8.40mm	8.70mm
7M10P	9M10P	M	32.00mm	34.50mm	8.40mm	8.70mm
7S10P	9S10P	S	30.00mm	32.50mm	8.40mm	8.70mm
7L33P	9L33P	L	34.00mm	36.50mm	8.40mm	8.70mm
7M33P	9M33P	M	32.00mm	34.50mm	8.40mm	8.70mm
7S33P	9S33P	S	30.00mm	32.50mm	8.40mm	8.70mm

Anteriors Upper
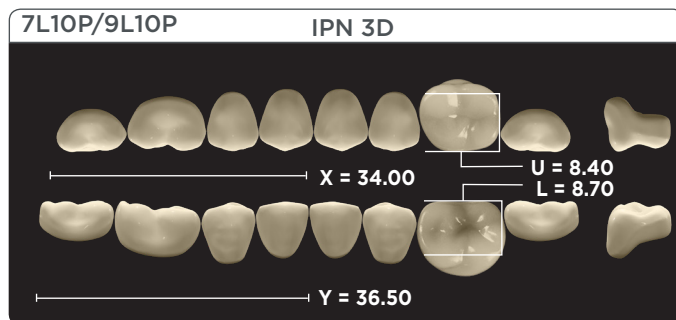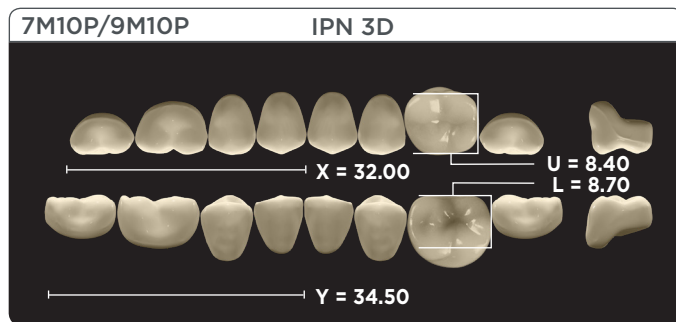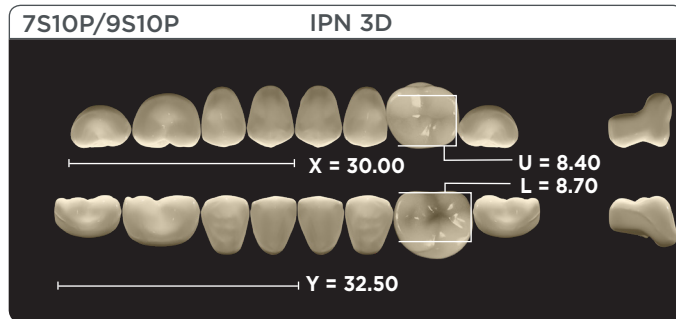
IPN 3D™ Digital Denture Teeth
Portrait® Inspired
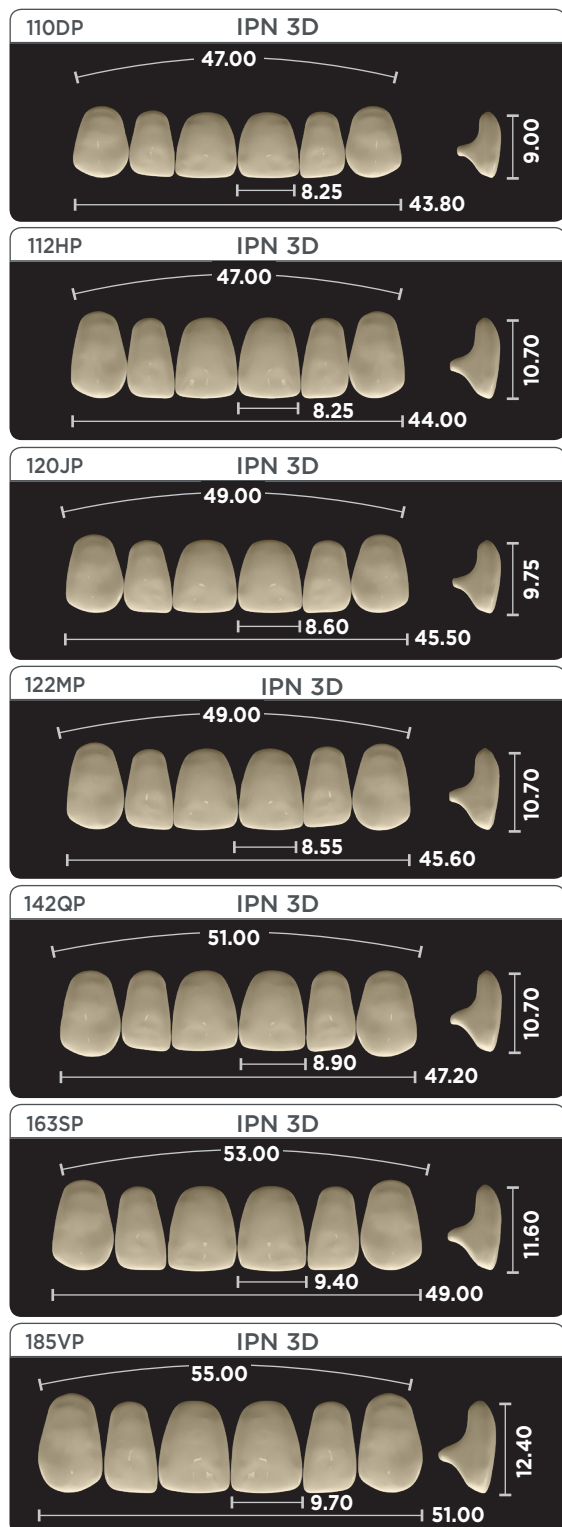
Anteriors Lower
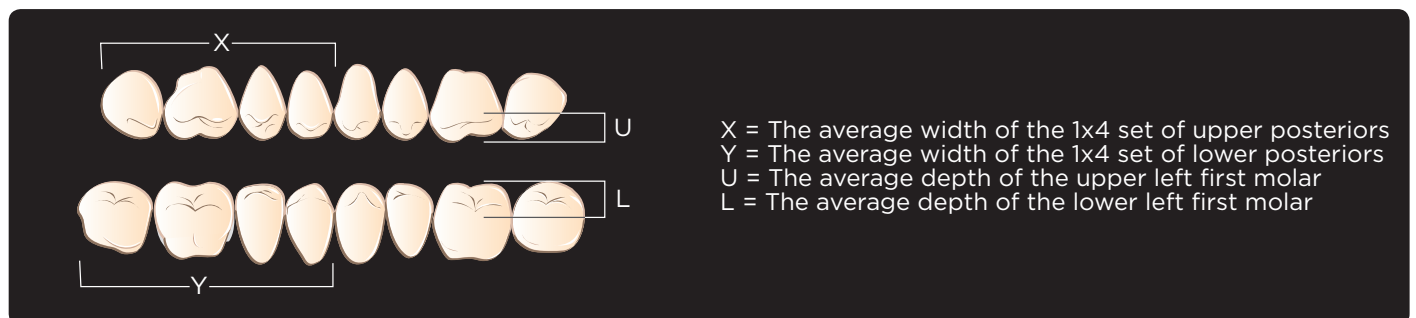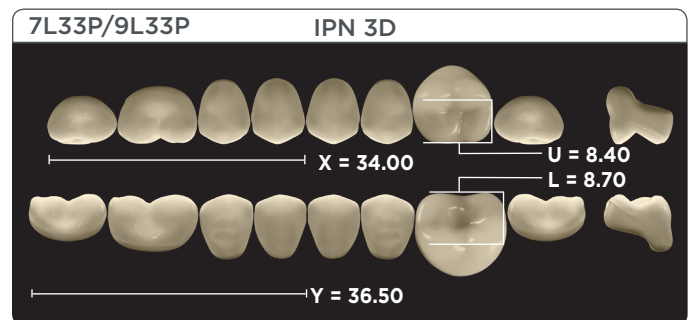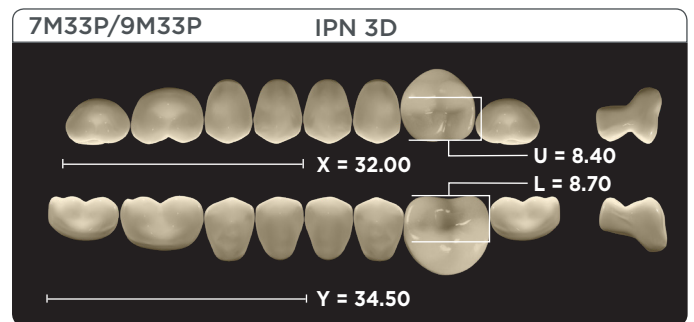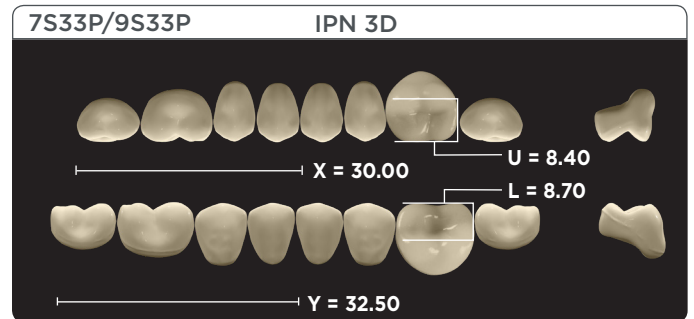
IPN 3D™ Digital Denture Teeth
Portrait® Inspired

110DP	IPN 3D
47.00	9.00
8.25	43.80

5DP	IPN 3D
34.60	8.80
5.00	32.40

112HP	IPN 3D
47.00	10.70
8.25	44.00

5HP	IPN 3D
34.60	10.50
5.00	32.90

120JP	IPN 3D
49.00	9.75
8.60	45.50

5JP	IPN 3D
36.00	9.50
5.20	33.70

122MP	IPN 3D
49.00	10.70
8.55	45.60

5MP	IPN 3D
36.00	10.50
5.30	34.25

142QP	IPN 3D
51.00	10.70
8.90	47.20

5QP	IPN 3D
37.50	10.50
5.50	35.10

163SP	IPN 3D
53.00	11.60
9.40	49.00

5SP	IPN 3D
39.00	11.20
5.60	36.50

185VP	IPN 3D
55.00	12.40
9.70	51.00

5VP	IPN 3D
40.40	12.20
6.00	38.00

Articulation key can be reviewed on page 3.

ISO 22112:2017

10° Posteriors

IPN 3D™ Digital Denture Teeth
Portrait® Inspired

7S10P/9S10P	IPN 3D

X = 30.00
U = 8.40
L = 8.70
Y = 32.50

7M10P/9M10P	IPN 3D

X = 32.00
U = 8.40
L = 8.70
Y = 34.50

7L10P/9L10P	IPN 3D

X = 34.00
U = 8.40
L = 8.70
Y = 36.50

33° Posteriors

IPN 3D™ Digital Denture Teeth
Portrait® Inspired

7S33P/9S33P	IPN 3D

X = 30.00
U = 8.40
L = 8.70
Y = 32.50

7M33P/9M33P	IPN 3D

X = 32.00
U = 8.40
L = 8.70
Y = 34.50

7L33P/9L33P	IPN 3D

X = 34.00
U = 8.40
L = 8.70
Y = 36.50

X
U
L
Y

X = The average width of the 1x4 set of upper posteriors
Y = The average width of the 1x4 set of lower posteriors
U = The average depth of the upper left first molar
L = The average depth of the lower left first molar

IPN 3D™ Digital Denture Teeth
Pre-occluded Library Combinations

Balanced Combinations (10˚)

IPN 3D_Balanced_110DP/5DP_7S10P/9S10P
IPN 3D_Balanced_110DP/5DP_7M10P/9M10P
IPN 3D_Balanced_110DP/5DP_7L10P/9L10P
IPN 3D_Balanced_120JP/5JP_7S10P/9S10P
IPN 3D_Balanced_120JP/5JP_7M10P/9M10P
IPN 3D_Balanced_120JP/5JP_7L10P/9L10P
IPN 3D_Balanced_122MP/5MP_7S10P/9S10P
IPN 3D_Balanced_122MP/5MP_7M10P/9M10P
IPN 3D_Balanced_122MP/5MP_7L10P/9L10P
IPN 3D_Balanced_142QP/5QP_7S10P/9S10P
IPN 3D_Balanced_142QP/5QP_7M10P/9M10P
IPN 3D_Balanced_142QP/5QP_7L10P/9L10P
IPN 3D_Balanced_163SP/5SP_7S10P/9S10P
IPN 3D_Balanced_163SP/5SP_7M10P/9M10P
IPN 3D_Balanced_163SP/5SP_7L10P/9L10P
IPN 3D_Balanced_185VP/5VP_7S10P/9S10P
IPN 3D_Balanced_185VP/5VP_7M10P/9M10P
IPN 3D_Balanced_185VP/5VP_7L10P/9L10P

Lingualized Combinations (33˚/10˚)

IPN 3D_Lingualized_110DP/5DP_7S33P/9S10P
IPN 3D_Lingualized_110DP/5DP_7M33P/9M10P
IPN 3D_Lingualized_110DP/5DP_7L33P/9L10P
IPN 3D_Lingualized_120JP/5JP_7S33P/9S10P
IPN 3D_Lingualized_120JP/5JP_7M33P/9M10P
IPN 3D_Lingualized_120JP/5JP_7L33P/9L10P
IPN 3D_Lingualized_122MP/5MP_7S33P/9S10P
IPN 3D_Lingualized_122MP/5MP_7M33P/9M10P
IPN 3D_Lingualized_122MP/5MP_7L33P/9L10P
IPN 3D_Lingualized_142QP/5QP_7S33P/9S10P
IPN 3D_Lingualized_142QP/5QP_7M33P/9M10P
IPN 3D_Lingualized_142QP/5QP_7L33P/9L10P
IPN 3D_Lingualized_163SP/5SP_7S33P/9S10P
IPN 3D_Lingualized_163SP/5SP_7M33P/9M10P
IPN 3D_Lingualized_163SP/5SP_7L33P/9L10P
IPN 3D_Lingualized_185VP/5VP_7S33P/9S10P
IPN 3D_Lingualized_185VP/5VP_7M33P/9M10P
IPN 3D_Lingualized_185VP/5VP_7L33P/9L10P

Balanced Combinations (33˚)

IPN 3D_Balanced_110DP/5DP_7S33P/9S33P
IPN 3D_Balanced_110DP/5DP_7M33P/9M33P
IPN 3D_Balanced_110DP/5DP_7L33P/9L33P
IPN 3D_Balanced_120JP/5JP_7S33P/9S33P
IPN 3D_Balanced_120JP/5JP_7M33P/9M33P
IPN 3D_Balanced_120JP/5JP_7L33P/9L33P
IPN 3D_Balanced_122MP/5MP_7S33P/9S33P
IPN 3D_Balanced_122MP/5MP_7M33P/9M33P
IPN 3D_Balanced_122MP/5MP_7L33P/9L33P
IPN 3D_Balanced_142QP/5QP_7S33P/9S33P
IPN 3D_Balanced_142QP/5QP_7M33P/9M33P
IPN 3D_Balanced_142QP/5QP_7L33P/9L33P
IPN 3D_Balanced_163SP/5SP_7S33P/9S33P
IPN 3D_Balanced_163SP/5SP_7M33P/9M33P
IPN 3D_Balanced_163SP/5SP_7L33P/9L33P
IPN 3D_Balanced_185VP/5VP_7S33P/9S33P
IPN 3D_Balanced_185VP/5VP_7M33P/9M33P
IPN 3D_Balanced_185VP/5VP_7L33P/9L33P
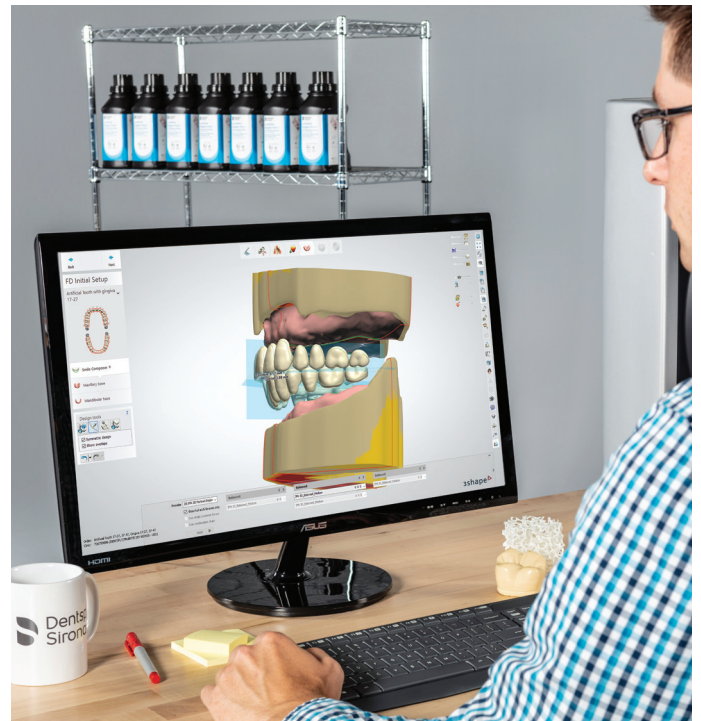
IPN® Material Performance

IPN Structure

Cross-linking of
primary chains

Cross-linking of
secondary chains
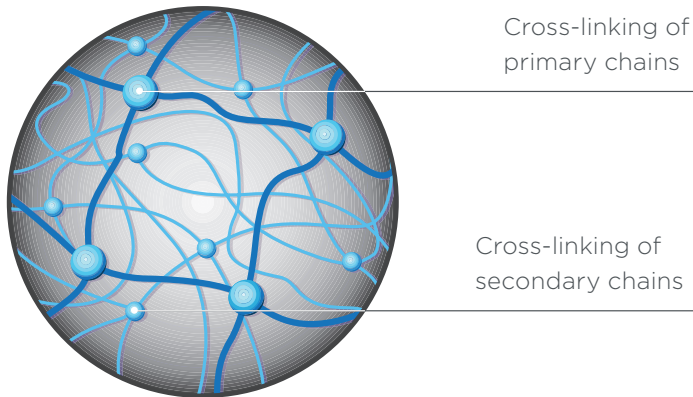
Homogenous three-dimensional structure and
cross-linking of primary and secondary molecular chains

IPN Characteristics

Interpenetrating Polymer Network. Highly cross-linked
copolymers, free from inorganic fillers, give this material
its superior properties:

· **Excellent abrasion resistance**

· **Excellent color stability**

· **Maximum bond strength**

The result: high-quality, long-lasting denture teeth.

Shade System

IPN 3D Digital Denture Teeth follow the unique shade
patterns of Portrait IPN teeth, delivering youthful
aesthetics. Each anterior tooth provides three shaded
layers of IPN material creating four distinct aesthetic
zones with natural translucency and well-defined
mamelons.

Available in all 16 A-D shade designations*, as well as
two bleach shades (BL1 and BL3).

Neck

Body

Enamel

Incisal
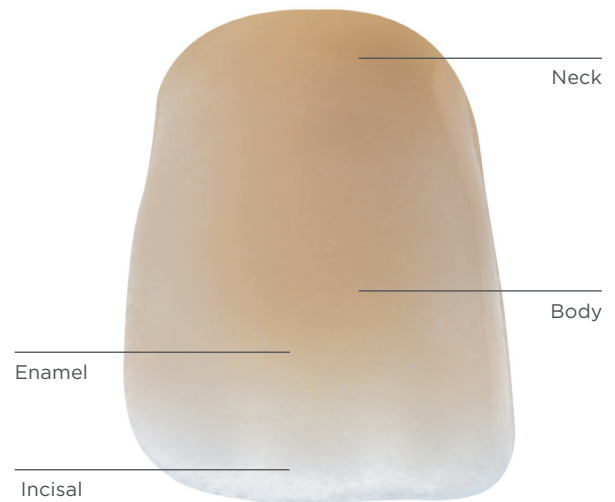
* The A1-D4 designations correspond to the VITA classical A1-D4® shade guide which is meant to be a guide, not a match. VITA classical A1-D4 is a registered trademark
   of VITA Zahnfabrik H. Rauter GmbH & Co.

Give Your Lab a Competitive Advantage

Early 3D printed denture systems compromised strength, aesthetics, and tooth durability. The process to prepare the material, wash, and finish could require significant time and technician skill. Lucitone Digital Print Dentures let you have it all.

High Impact Material

Lucitone Digital Print 3D Denture Resin exceeds ISO requirements for materials with improved impact resistance. The printed material resists breakage due to its unique formula delivering high-impact resistance and flexural strength. A confidence builder for patients, clinicians and labs.

IPN Durability

IPN 3D Digital Denture Teeth are digital- ready teeth that provide a versatile combination of aesthetics, function and performance. IPN 3D deliver exceptional wear resistance and excellent stain resistance.

Body Activated Material

Lucitone Digital Print 3D Denture Resin features smart polymer technology that permits the finished denture to immediately respond to body temperature (while being worn), to have amplified material properties resisting breakage and preventing the worsening of any existing cracks or fractures.

Lucitone Digital Print™
3D Denture Resin
- Optimized for Carbon M-Series Printers
- 5 Lucitone shades
- Exceeds ISO high impact standards
- No mixing required – just pour & print
- Easy to polish

Lucitone Digital Fuse™
Step 1 - 3D Tooth Conditioning Agent

Lucitone Digital Fuse™
Step 2 - 3D Denture Bonding Resin

Lucitone Digital Fuse™
Step 3 - 3D Denture Sealer

Lucitone Digital Try-In™
3D Trial Placement Resin
- Monolithic Try-In materials
- 6 tooth shades

inLab Speedcure™
Processing Unit
- 120V light curing machine
- Cures 2 arches in 26 minutes

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Dentsply Sirona