

# detax



Premium 3D dental resins

# dx 3D Guide

The background features a dynamic, abstract composition of flowing, liquid-like shapes. The primary colors are a vibrant yellow and a soft, muted green, which blend and swirl together to create a sense of movement and depth. The lighting is soft, highlighting the smooth, glossy surfaces of the forms.

**detax**

**Materials that matter**



# Welcome to the world of detax

For over 70 years, we have been dedicated to developing high-quality silicones and composites for dentistry and hearing aid acoustics. Our innovative materials empower patients to regain their quality of life and restore their smiles.

## **Ideas are our most important raw materials**

Our passion for developing new products is our driving force – time and again, medical products from Detax set new standards in audio and dental technology.

## **Quality made in Ettlingen**

Not only do we constantly invest in research, but we also manufacture our products ourselves in our factory on the company premises in Ettlingen. This gives us continuous control over what is most important to us in our work: its quality.

## **Partnership to go**

Medical products from Detax are valued in over 100 countries around the world. To ensure safe distribution, Detax works with selected partner companies in the target countries.

## **The best thing about us is the we**

A respectful attitude towards our business partners and our staff is important to us. Friendly appreciation determines the way we treat each other and people outside the company.

Detax is growing and our teams are also expanding, which is why we welcome every application. From initial contact and onboarding to update meetings and further training: We accompany and support every employee in all phases of their working life.

# 3D resins by detax



<b>Material type</b>							
<b>Application</b>		Removable denture bases, total prosthesis	Removable denture bases, total prosthesis	Removable partial dentures, flexible	Permanent crowns, denture teeth, Long-term temporary bridges	Temporary crowns & bridges	Individual functional try-ins
<b>Color</b>		Pink-transparent, pink	Pink-transparent, pink	Pink-transparent, clear	A1, A2, A3, B1, B3, C2, D3, BL	A1, A2, A3	A1, A2, A3
<b>Medical Device Class</b>	<b>MDR</b>	IIa	IIa	IIa	IIa	IIa	IIa
	<b>FDA</b>	II	II	II	II	II	I
	<b>NMPA</b>	-	-	-	-	-	-
	<b>HC</b>	II	II	II	III	II	I



<b>Material type</b>						
<b>Application</b>		Master & working models, situation models, control models	Master & working models, situation models, control models	Working models for thermoforming and aligner technology	Thermoforming models	Gingival masks for dental models
<b>Color</b>		Caramel, grey, light grey, sand	Caramel, grey, sand	Caramel, light tan	Light blue	Gingiva
<b>Medical Device Class</b>	<b>MDR</b>	TEC resin	TEC resin	TEC resin	TEC resin	TEC resin
	<b>FDA</b>	TEC resin	TEC resin	TEC resin	TEC resin	TEC resin
	<b>NMPA</b>	I	I	-	I	I
	<b>HC</b>	TEC resin	TEC resin	TEC resin	TEC resin	TEC resin

**aligner/splint/  
surgical guide**



<b>Material type</b>						
<b>Application</b>		Direct printing of aligners and retainers	Functional splints, retainers, mouthguards, nightguards, bleaching trays	Flexible splints, retainers, mouthguards, nightguards, bleaching trays	Hard splints	Autoclavable surgical guides, orthodontic base components
<b>Color</b>		Clear-transparent	Clear-transparent	Clear-transparent	Clear-transparent	Clear-transparent
<b>Medical Device Class</b>	<b>MDR</b>	Ia	Ia	Ia	Ia	Ia
	<b>FDA</b>	in process	II	II	I	I
	<b>NMPA</b>	-	-	-	TEC resin	TEC resin
	<b>HC</b>	in process	II	II	II	II

**others**



<b>Material type</b>				
<b>Application</b>		Individual impression trays, functional trays, base plates	Orthodontic bracket transfer trays, bleaching trays	Casting technique, burns without residue
<b>Color</b>		Green	Transparent	Red-transparent
<b>Medical Device Class</b>	<b>MDR</b>	I	I	TEC resin
	<b>FDA</b>	I	I	TEC resin
	<b>NMPA</b>	MED resin	-	-
	<b>HC</b>	I	I	TEC resin

**MDR** Medical Device Regulation EU  
**FDA** Food and Drug Administration USA  
**NMPA** National Medical Products Administration China  
**HC** Health Canada

3D Freeprint® Material

# denture/C&B



3D Freeprint® Material

# denture

Light-curing formulation for 3D printing of denture bases and total prosthesis.

 **Colors:**  
pink-transparent,  
pink

 **Wavelength:**  
385 nm

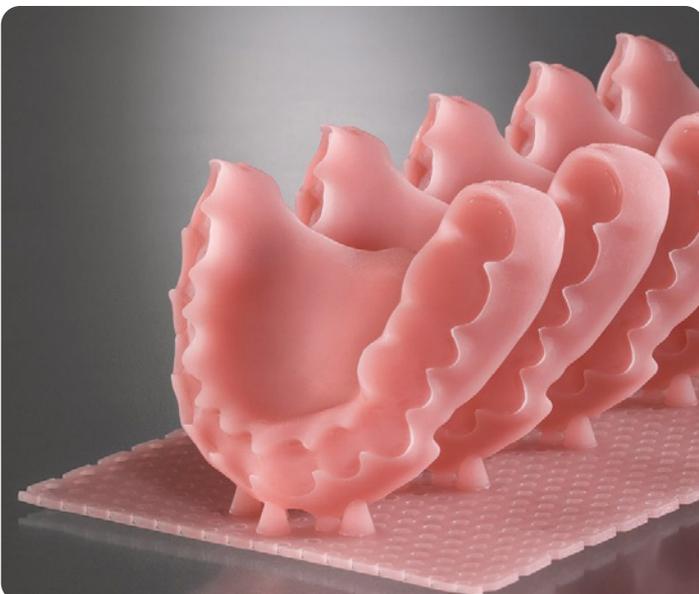
 **Medical Product:**  
Class IIa

REF	Product	Unit
02060 / 02040 / 03518	Freeprint® denture pink-transparent	500 g / 1000 g / 5 kg
04092 / 03298	Freeprint® denture pink	1000 g / 5 kg

Parameters	Standard	
Flexural strength	DIN EN ISO 20795-1 <sup>1)</sup>	> 100 MPa
Flexural modulus	DIN EN ISO 20795-1 <sup>1)</sup>	> 2500 MPa
Water absorption	DIN EN ISO 20795-1 <sup>1)</sup>	< 32 µg / mm <sup>3</sup>
Solubility	DIN EN ISO 20795-1 <sup>1)</sup>	< 1.6 µg / mm <sup>3</sup>
Hardness	-	> 83 Shore D
Biocompatibility	DIN EN ISO 10993-1 <sup>2)</sup>	fulfilled

<sup>1)</sup> Dentistry: Denture resins (in keeping with the standard at room temperature)

<sup>2)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Freeprint® Material

# denture impact

Light-curing formulation for 3D printing of impact resistant denture bases.

 **Colors:**  
pink-transparent,  
pink

 **Wavelength:**  
385 nm

 **Medical Product:**  
Class IIa

REF	Product	Unit
04436	Freeprint® denture impact pink-transparent	1000 g
04437	Freeprint® denture impact pink	1000 g

Parameters	Standard	
Flexural strength	DIN EN ISO 20795-1 <sup>1)</sup>	> 80 MPa
Flexural modulus	DIN EN ISO 20795-1 <sup>1)</sup>	> 2100 MPa
Water sorption	DIN EN ISO 20795-1 <sup>1)</sup>	< 32 µg / mm <sup>3</sup>
Solubility	DIN EN ISO 20795-1 <sup>1)</sup>	< 1.6 µg / mm <sup>3</sup>
Hardness	-	> 82 Shore D
Biocompatibility	DIN EN ISO 10993-1 <sup>2)</sup>	fulfilled

<sup>1)</sup> Dentistry: Denture resins (in keeping with the standard at room temperature)

<sup>2)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Freeprint® Material

# denture flex

Light-curing formulation for 3D printing of flexible partial denture bases.

 **Colors:**  
pink-transparent,  
clear

 **Wavelength:**  
385 nm

 **Medical Product:**  
Class IIa

REF	Product	Unit
04625	Freeprint® denture flex pink-transparent	1000 g
04626	Freeprint® denture flex clear	1000 g

Parameters	Standard	
Elongation	DIN EN ISO 527-1 <sup>1)</sup>	> 20 %
Tensile Strength	DIN EN ISO 527-1 <sup>1)</sup>	> 45 MPa
Water sorption	DIN EN ISO 20795-1 <sup>2)</sup>	< 32 µg / mm <sup>3</sup>
Solubility	DIN EN ISO 20795-1 <sup>2)</sup>	< 1.6 µg / mm <sup>3</sup>
Hardness	-	> 78 Shore D
Biocompatibility	DIN EN ISO 10993-1 <sup>3)</sup>	fulfilled

<sup>1)</sup> Resins: Determination of tensile strength (in keeping with the standard at room temperature)

<sup>2)</sup> Dentistry: Denture resins (in keeping with the standard at room temperature)

<sup>3)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Freeprint® Material

# crown

Light-curing formulation for 3D printing of permanent single crowns, denture teeth and long-term temporary bridges.

 **Colors:**  
A1, A2, A3, A3,5,  
B1, B3, C2, D3, BL

 **Wavelength:**  
385 nm

 **Medical Product:**  
Class IIa

REF	Product	Unit
02372 / 02376	Freeprint® crown A1	500 g / 1000 g
02378 / 02415	Freeprint® crown A2	500 g / 1000 g
02417 / 02446	Freeprint® crown A3	500 g / 1000 g
04709 / 04708	Freeprint® crown A3,5	500 g / 1000 g
02481 / 02519	Freeprint® crown B1	500 g / 1000 g
02645 / 02758	Freeprint® crown B3	500 g / 1000 g
02766 / 02782	Freeprint® crown C2	500 g / 1000 g
02783 / 02825	Freeprint® crown D3	500 g / 1000 g
02845 / 02884	Freeprint® crown BL	500 g / 1000 g

Parameters	Standard	
Flexural strength	DIN EN ISO 10477 <sup>1)</sup>	> 100 MPa
Flexural modulus	DIN EN ISO 10477 <sup>1)</sup>	> 2800 MPa
Water absorption	DIN EN ISO 10477 <sup>1)</sup>	< 40 µg / mm <sup>3</sup>
Solubility	DIN EN ISO 10477 <sup>1)</sup>	< 7.5 µg / mm <sup>3</sup>
Hardness	-	> 50 Barcol
Biocompatibility	DIN EN ISO 10993-1 <sup>2)</sup>	fulfilled

<sup>1)</sup> Crown and veneering resins (in keeping with the standard at room temperature)

<sup>2)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Freeprint® Material

# temp

Light-curing formulation for 3D printing of temporary crowns & bridges and anterior and posterior tooth restorations.

 **Colors:**  
A1, A2, A3

 **Wavelength:**  
385 nm

 **Medical Product:**  
Class IIa

REF	Product	Unit
04058 / 04062	Freeprint® temp A1	500 g / 1000 g
04059 / 04063	Freeprint® temp A2	500 g / 1000 g
04060 / 04064	Freeprint® temp A3	500 g / 1000 g

Parameters	Standard	
Flexural strength	DIN EN ISO 10477 <sup>1)</sup>	> 100 MPa
Flexural modulus	DIN EN ISO 10477 <sup>1)</sup>	> 2300 MPa
Water absorption	DIN EN ISO 10477 <sup>1)</sup>	< 40 µg / mm <sup>3</sup>
Solubility	DIN EN ISO 10477 <sup>1)</sup>	< 7.5 µg / mm <sup>3</sup>
Hardness	-	> 40 Barcol
Biocompatibility	DIN EN ISO 10993-1 <sup>2)</sup>	fulfilled

<sup>1)</sup> Crown and veneering resins (in keeping with the standard at room temperature)

<sup>2)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Freeprint® Material

# tryin

Light-curing formulation for 3D printing of individual functional try-ins of digitally manufactured denture bases.

 **Colors:**  
A1, A2, A3

 **Wavelength:**  
385 nm

 **Medical Product:**  
Class IIa

REF	Product	Unit
04426	Freeprint® tryin A1	1000 g
04427	Freeprint® tryin A2	1000 g
04428	Freeprint® tryin A3	1000 g

Parameters	Standard	
Flexural strength	DIN EN ISO 20795-1 <sup>1)</sup>	> 100 MPa
Flexural modulus	DIN EN ISO 20795-1 <sup>1)</sup>	> 2200 MPa
Hardness	-	> 85 Shore D
Biocompatibility	DIN EN ISO 10993-1 <sup>2)</sup>	fulfilled

<sup>1)</sup> Dentistry: Denture resins (in keeping with the standard at room temperature)

<sup>2)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



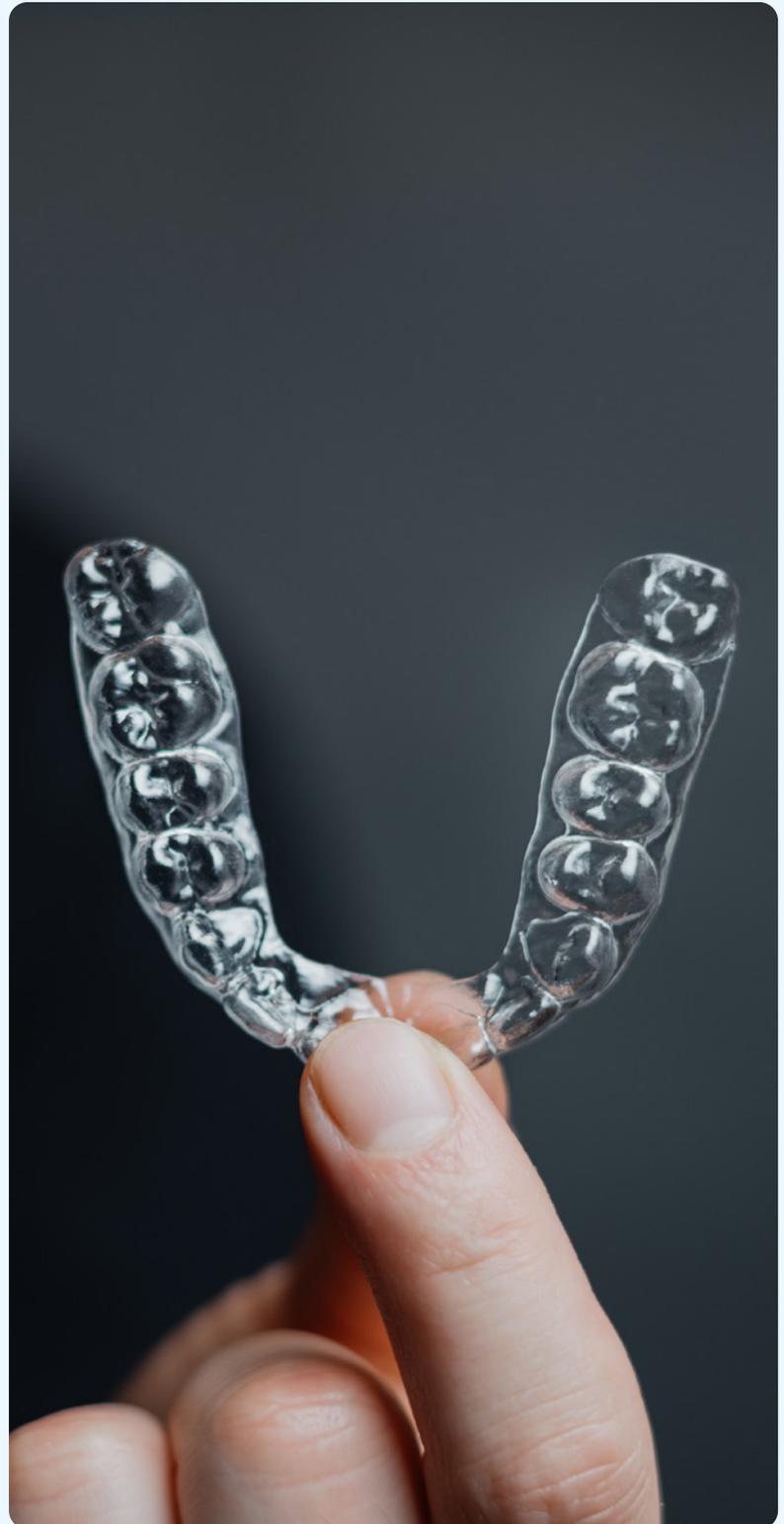


**detax**

**Materials that matter**

3D Freeprint® Material

# aligner/splint/surgical guide



## 3D Med Material

# dx direct aligner

Light curing formulation for direct printing of aligners and retainers.

- Outstanding biocompatibility
- Optimal balance of strength & flexibility
- Streamlined workflow
- No discoloration

 **Color:**  
clear-transparent

 **Wavelength:**  
385 nm

 **Medical Product:**  
Class IIa

REF	Product	Unit
04707	dx direct aligner	1000 g
04706	dx direct aligner	5 kg

Parameters	Standard	
Flexural strength	DIN EN ISO 20795-2 <sup>1)</sup>	> 40 MPa
Flexural modulus	DIN EN ISO 20795-2 <sup>1)</sup>	> 1000 MPa
Tensile strength	DIN EN ISO 527-1 <sup>2)</sup>	> 55 MPa
Elongation	DIN EN ISO 527-1 <sup>2)</sup>	> 25 %
Hardness	-	> 75 Shore D
Glasübergangstemperatur	DIN EN ISO 6721-11 <sup>3)</sup>	> 86 °C
Water absorption	DIN EN ISO 20795-2 <sup>1)</sup>	< 32 µg/mm <sup>3</sup>
Solubility	DIN EN ISO 20795-2 <sup>1)</sup>	< 5 µg/mm <sup>3</sup>
Biocompatibility	DIN EN ISO 10993-1 <sup>4)</sup>	fulfilled

<sup>1)</sup> Dentistry: Orthodontic resins (in keeping with the standard at room temperature)

<sup>2)</sup> Resins: Determination of tensile strength (in keeping with the standard at room temperature)

<sup>3)</sup> Resins: Determination of dynamic mechanical properties - Glass transition temperature

<sup>4)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Med Material

# splintmaster taff & flex

Light-curing formulation for 3D printing of flexible splints, retainers, mouthguards, nightguards and bleaching trays. In two levels of flexibility: taff – for functional splints, flex – for flexible splints.

 **Color:**  
clear-transparent

 **Wavelength:**  
385 nm

 **Medical Product:**  
Class IIa

REF	Product	Unit
04433	Freeprint® splintmaster taff	1000 g
04432	Freeprint® splintmaster flex	1000 g

Parameters	Standard	taff / flex
Tensile strength	DIN EN ISO 527-1 <sup>1)</sup>	> 40 MPa / > 25 MPa
Tensile elongation	DIN EN ISO 527-1 <sup>1)</sup>	> 20 % / > 50 %
Tear propagation resistance	DIN EN ISO 34-1 <sup>2)</sup>	> 140 N/mm / > 110 N/mm
Hardness	–	> 75 Shore D / > 65 Shore D
Water absorption	DIN EN ISO 20795-2 <sup>3)</sup>	< 32 µg / mm <sup>3</sup> / < 32 µg / mm <sup>3</sup>
Solubility	DIN EN ISO 20795-2 <sup>3)</sup>	< 5 µg / mm <sup>3</sup> / < 5 µg / mm <sup>3</sup>
Biocompatibility	DIN EN ISO 10993-1 <sup>4)</sup>	fulfilled / fulfilled

<sup>1)</sup> Resins: Determination of tensile strength (in keeping with the standard at room temperature)  
<sup>2)</sup> Thermoplastic elastomers: Determination of tear propagation resistance (in keeping with the standard at room temperature)  
<sup>3)</sup> Dentistry: Orthodontic resins (in keeping with the standard at room temperature)  
<sup>4)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



# 3D Freeprint® Material splint 2.0

Light-curing formulation for 3D printing of hard splints.

**Color:**  
clear-transparent

**Wavelength:**  
385 nm

**Medical Product:**  
Class IIa

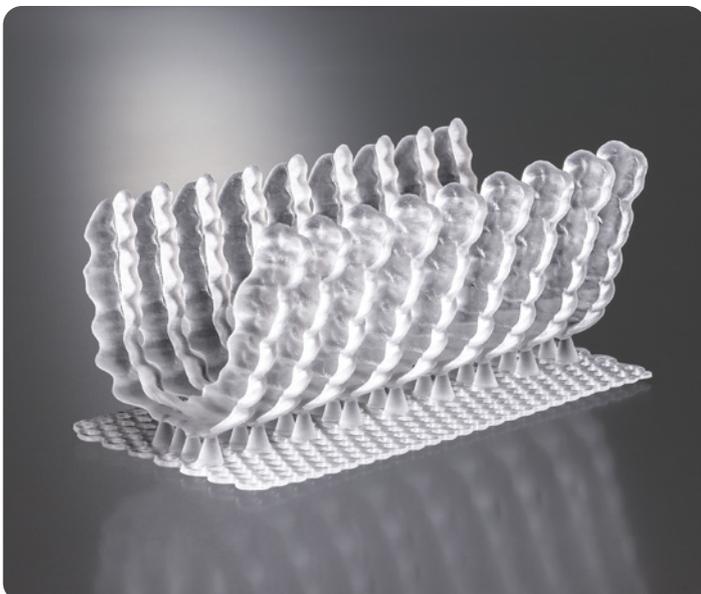
REF	Product	Unit
02080 / 02076	Freeprint® splint 2.0	500 g / 1000 g

Parameters	Standard	
Flexural strength	DIN EN ISO 20795-2 <sup>1)</sup>	> 80 MPa
Flexural modulus	DIN EN ISO 20795-2 <sup>1)</sup>	> 2000 MPa
Water absorption	DIN EN ISO 20795-2 <sup>1)</sup>	< 32 µg / mm <sup>3</sup>
Solubility	DIN EN ISO 20795-2 <sup>1)</sup>	< 5 µg / mm <sup>3</sup>
Hardness	-	> 80 Shore D
Biocompatibility	DIN EN ISO 10993-1 <sup>2)</sup>	fulfilled

<sup>1)</sup> Dentistry: Orthodontic resins (in keeping with the standard at room temperature)

<sup>2)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Freeprint® Material

# ortho

Light-curing formulation for 3D printing of autoclavable base parts for orthodontic appliances, surgical guides and X-ray templates.

 **Color:**  
clear-transparent

 **Wavelength:**  
385 / 405 nm

 **Medical Product:**  
Class IIa

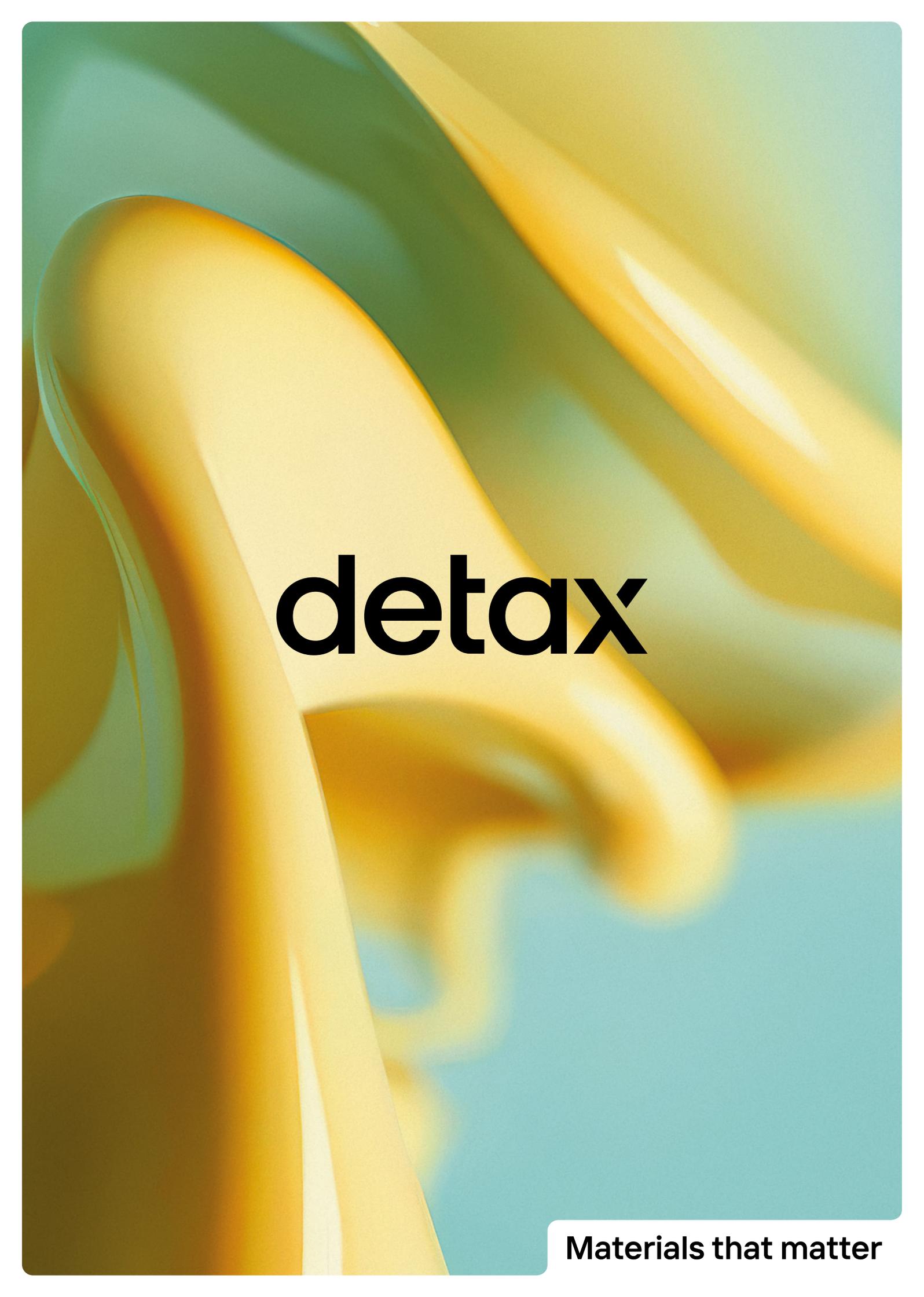
REF	Product	Unit
03989 / 04323	Freeprint® ortho 385	1000 g / 5 kg
03988	Freeprint® ortho 405	1000 g

Parameters	Standard	
Flexural strength	DIN EN ISO 20795-2 <sup>1)</sup>	> 75 MPa
Flexural modulus	DIN EN ISO 20795-2 <sup>1)</sup>	> 1650 MPa
Water absorption	DIN EN ISO 20795-2 <sup>1)</sup>	< 32 µg / mm <sup>3</sup>
Solubility	DIN EN ISO 20795-2 <sup>1)</sup>	< 5 µg / mm <sup>3</sup>
Hardness	-	> 82 Shore D
Biocompatibility	DIN EN ISO 10993-1 <sup>2)</sup>	fulfilled

<sup>1)</sup> Dentistry: Orthodontic resins (in keeping with the standard at room temperature)

<sup>2)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



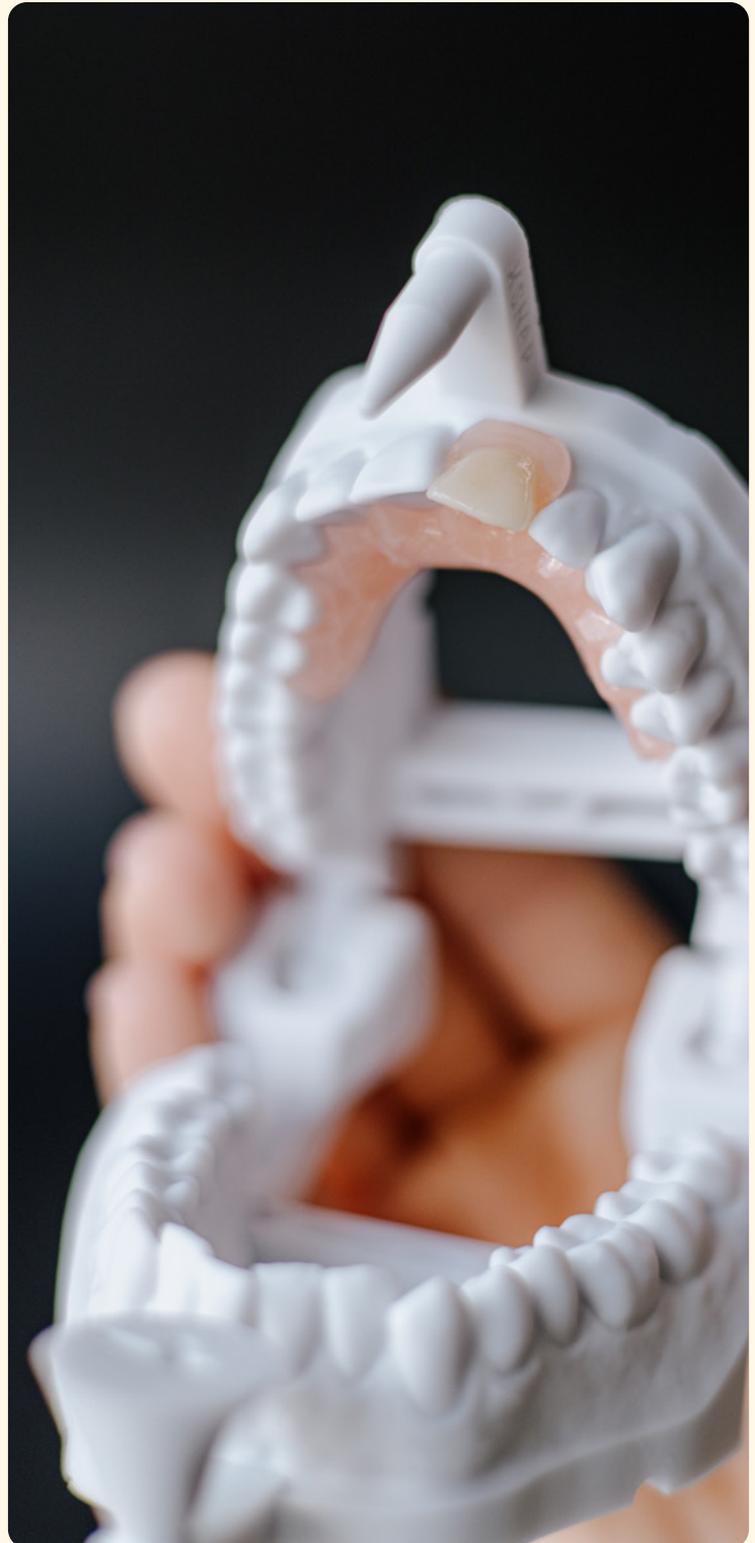
The background features a dynamic, abstract composition of flowing, organic shapes. A prominent, bright yellow shape curves from the top left towards the center, while a teal-green shape flows from the top right towards the center. The overall effect is one of movement and depth, with soft gradients and highlights that suggest a liquid or fabric-like texture.

**detax**

**Materials that matter**

3D Freeprint® Material

model



## 3D Freeprint® Material

# model 2.0

Light-curing formulation for 3D printing of master and working models, situation models, control models.

 **Colors:**  
caramel, light grey,  
grey, sand, white

 **Wavelength:**  
380 – 405 nm

 **Technical  
product**

REF	Product	Unit
02850 / 04015	Freeprint® model 2.0 caramel	1000 g / 5 kg
02099 / 04107	Freeprint® model 2.0 light grey	1000 g / 5 kg
02177 / 04106	Freeprint® model 2.0 grey	1000 g / 5 kg
02128 / 04117	Freeprint® model 2.0 sand	1000 g / 5 kg
02148 / 04118	Freeprint® model 2.0 white*	1000 g / 5 kg

\* not THF-MA free

Parameters	Standard	
Flexural strength	DIN EN ISO 178 <sup>1)</sup>	> 80 MPa
Flexural modulus	DIN EN ISO 178 <sup>1)</sup>	> 1700 MPa
Hardness	–	> 84 Shore D

<sup>1)</sup> Resins: Determination of flexural strength (in keeping with the standard at room temperature)



3D Freeprint® Material

# model pro

Light-curing formulation for 3D printing of master and working models, situation models, control models.

 **Colors:**  
caramel, grey, light grey, sand

 **Wavelength:**  
380 – 405 nm

 **Technical Product**

REF	Product	Unit
04440 / 02585	Freeprint® model pro caramel	1000 g / 5 kg
04438 / 02574	Freeprint® model pro grey	1000 g / 5 kg
02546 / 02558	Freeprint® model pro light grey	1000 g / 5 kg
04439 / 02579	Freeprint® model pro sand	1000 g / 5 kg

Parameters	Standard	
Flexural strength	DIN EN ISO 178 <sup>1)</sup>	> 90 MPa
Flexural modulus	DIN EN ISO 178 <sup>1)</sup>	> 2000 MPa
Hardness	-	> 82 Shore D

<sup>1)</sup> Resins: Determination of flexural strength (in keeping with the standard at room temperature)



### 3D Tec Material

# dx model basic

Light-curing formulation for 3D printing of working models, especially for thermoforming and aligner technology.

- High temperature resistance
- Good surface hardness
- Short post-processing
- Suitable for hollow models

 **Colors:**  
caramel, light tan

 **Wavelength:**  
380 – 405 nm

 **Technical Product**



REF	Product	Unit
04734	dx model basic caramel	1000 g*
04735	dx model basic caramel	5 kg*
04733	dx model basic caramel	200 kg*
04737	dx model basic light tan	1000 g*
04738	dx model basic light tan	5 kg*
04736	dx model basic light tan	200 kg*

\* Minimum order quantity 500 kg

Parameters	Standard	
Flexural strength	DIN EN ISO 178 <sup>1)</sup>	> 75 MPa
Flexural modulus	DIN EN ISO 178 <sup>1)</sup>	> 2000 MPa
Hardness	–	> 80 Shore D

<sup>1)</sup> Resins: Determination of flexural strength (in keeping with the standard at room temperature)



3D Freeprint® Material

# model T

Light-curing formulation for 3D printing of thermoforming models.

 **Color:**  
light blue

 **Wavelength:**  
380 – 405 nm

 **Technical product**

REF	Product	Unit
02332/04322	Freeprint® model T	1000 g / 5 kg

Parameters	Standard	
Working temperature for thermoforming sheets	-	≤ 195 °C
Flexural strength	DIN EN ISO 178 <sup>1)</sup>	> 80 MPa
Flexural modulus	DIN EN ISO 178 <sup>1)</sup>	> 1700 MPa
Hardness	-	> 83 Shore D

<sup>1)</sup> Resins: Determination of flexural strength (in keeping with the standard at room temperature)



3D Freeprint® Material

# gingiva

Light-curing formulation for 3D printing of flexible gingival masks for dental models.

 **Color:**  
gingiva

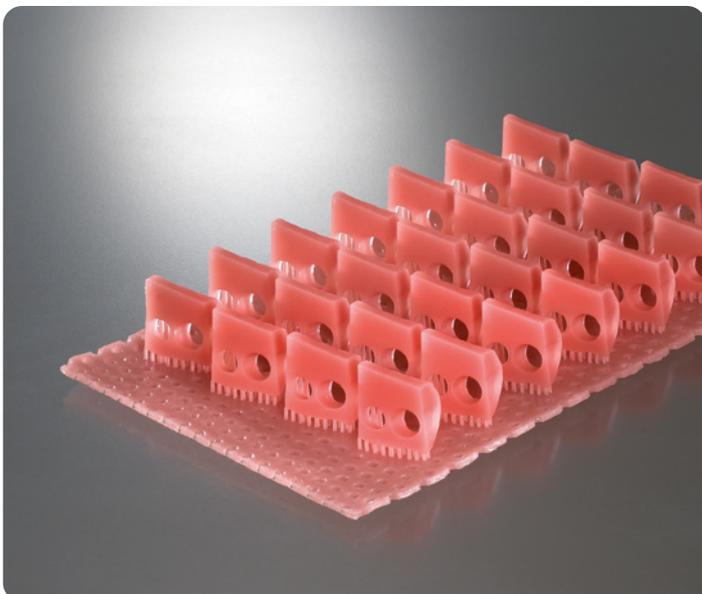
 **Wavelength:**  
380 – 405 nm

 **Technical product**

REF	Product	Unit
02820 / 02843	Freeprint® gingiva	500 g / 1000 g

Parameters	Standard	
Tensile strength	DIN EN ISO 527-1 <sup>1)</sup>	> 3 MPa
Tensile elongation	DIN EN ISO 527-1 <sup>1)</sup>	> 90 %
Hardness	–	> 70 Shore A

<sup>1)</sup> Resins: Determination of tensile strength (in keeping with the standard at room temperature)



3D Freeprint® Material

# tray/ibt/cast



3D Freeprint® Material

# tray 2.0

Light-curing formulation for 3D printing of individual impression and functional trays, base plates.

-  **Color:**  
green
-  **Wavelength:**  
380 – 405 nm
-  **Medical Product:**  
Class I

REF	Product	Unit
02505	Freeprint® tray 2.0	1000 g
04624	Freeprint® tray 2.0	5 kg

Parameters	Standard	
Flexural strength	DIN EN ISO 178 <sup>1)</sup>	> 90 MPa
Flexural modulus	DIN EN ISO 178 <sup>1)</sup>	> 1900 MPa
Hardness	–	> 84 Shore D
Biocompatibility	DIN EN ISO 10993-1 <sup>2)</sup>	fulfilled

<sup>1)</sup> Resins: Determination of flexural strength (in keeping with the standard at room temperature)  
<sup>2)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Freeprint® Material

ibt

Light-curing formulation for 3D printing of flexible orthodontic bracket transfer trays and bleaching trays.

 **Color:**  
transparent

 **Wavelength:**  
385 nm

 **Medical Product:**  
Class I

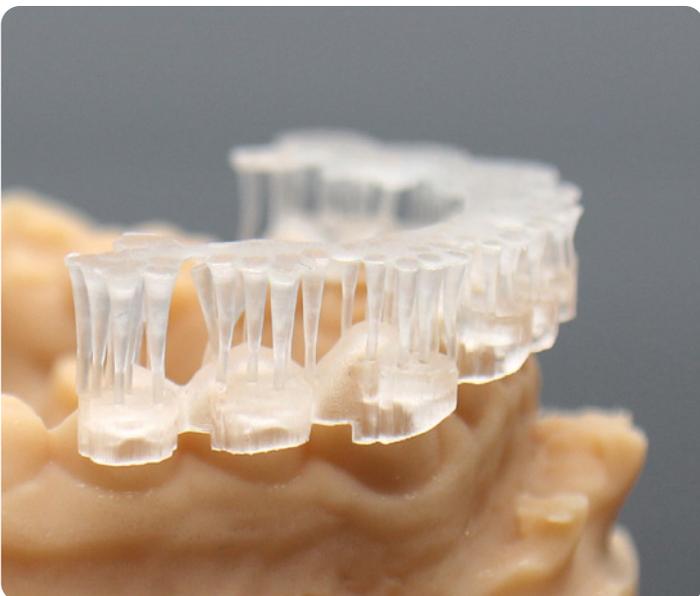
REF	Product	Unit
04249	Freeprint® ibt	1000 g

Parameters	Standard	
Tensile strength	DIN EN ISO 527-1 <sup>1)</sup>	> 8 MPa
Tensile elongation	DIN EN ISO 527-1 <sup>1)</sup>	> 60 %
Tear propagation resistance	DIN EN ISO 34-1 <sup>2)</sup>	> 35 N/mm
Hardness	-	> 90 Shore A
Biocompatibility	DIN EN ISO 10993-1 <sup>3)</sup>	fulfilled

<sup>1)</sup> Resins: Determination of tensile strength (in keeping with the standard at room temperature)

<sup>2)</sup> Thermoplastic elastomers: Determination of tear propagation resistance (in keeping with the standard at room temperature)

<sup>3)</sup> Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



3D Freeprint® Material

# cast 2.0

Light-curing formulation for 3D printing of high-precision casting objects.

 **Color:**  
red-transparent

 **Wavelength:**  
380 – 405 nm

 **Technical product**

REF	Product	Unit
02548 / 02632	Freeprint® cast 2.0	500 g / 1000 g

Parameters	Standard	
Flexural strength	DIN EN ISO 178 <sup>1)</sup>	> 70 MPa
Flexural modulus	DIN EN ISO 178 <sup>1)</sup>	> 1700 MPa
Bakeout temperature	-	1 h @ 800 °C
Combustion residue	-	< 0.1%

<sup>1)</sup> Resins: Determination of flexural strength (in keeping with the standard at room temperature)



# dx validation printer matrix (385 nm)

	denture/C&B		aligner/splint/surgical guide					model					tray/bt/cast						
	denture	denture impact	denture flex	denture crown	temp	tryin	direct aligner	splint soft	splintmaster flex	splint 2.0	ortho	model 2.0	model pro	dx model basic	modelIT	gingiva	tray 2.0	bt	cast 2.0
<b>ASIGA</b>																			
Max	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Max2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ultra	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pico2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PRO2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PRO4K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>rapidshape</b>																			
ONE							●												
Pro20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pro30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D10/D20 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D30/D40 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D60+ Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D70/D90 Series																			
<b>siraumann</b>																			
P-Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>Qualification</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Date: 02/2026

● validated ● in process

# dx validation printer matrix (385 nm)

	denture/C&B			aligner/splint/surgical guide					model					tray/lbt/cast				
	denture	denture impact	denture flex	denture crown	denture temp	denture tryin	direct aligner	aligner master	splint 2.0	ortho	model 2.0	model pro	dx model basic	modelIT	gingiva	tray 2.0	lbt	cast 2.0
<b>ivoclar</b>																		
PrograPrint PRS																		
<b>MICROLAY</b>																		
Versus																		
<b>3D</b> Gildowell																		
Fastprint.io																		
<b>X</b> LuxCreo																		
iLux Pro Dental																		
<b>MICRAFT</b>																		
Prime/Hyper Series																		
Ultra Series																		
Alpha																		
<b>H+</b> Hi-Clares																		
A2D																		
A2D HD																		
A3D																		
Chairside																		
<b>W2P</b>																		
SolFlex																		
<b>Qualification</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Date: 02/2026

● validated ● in process

# dx validation printer matrix (405 nm)

	denture/C&B		aligner/splint/surgical guide					model					tray/bt/cast							
<b>formlabs</b> 																				
Form-4B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>RAYSHAPE</b>																				
Edge E2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Edge Mini	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>MICROBLAY</b>																				
Eve Pro																				
<b>Aidite</b>																				
CPD-100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>phrozen</b>																				
Sonic-4K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>SHINING 3D</b> DURAL																				
Accu-Fab L4D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Accu-Fab CEL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Accu-Fab D1S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>3DTC</b>																				
Meccatronico																				
<b>Qualification</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Date: 02/2026

● validated ● in process

# dx validation curing matrix

	denture/C&B					aligner/splint/surgical guide					model					tray/bt/cast				
	denture	denture impact	denture flex	crown	temp	tylin	aligner	splint	surgical guide	ortho	model 2.0	model pro	dx-model basic	model IT	gringiva	tray 2.0	bt	cast 2.0		
<b>MNK-Optik</b>																				
Oroflash G71N2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
NK Flash 250/500	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
NK Flash 150	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
<b>ASIGA</b>																				
Asiga Cure	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
<b>rapidshope</b>																				
Cure, RSCure, ProCure	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
RS Cure XL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
<b>streuemann</b>																				
P Cure	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
<b>dentalfarm</b>																				
Photopri	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
<b>Gildewell</b>																				
ILCD				●													●			
<b>LuxCreo</b>																				
ILCP		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
<b>Qualification</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

Date: 02/2026

● validated ● in process

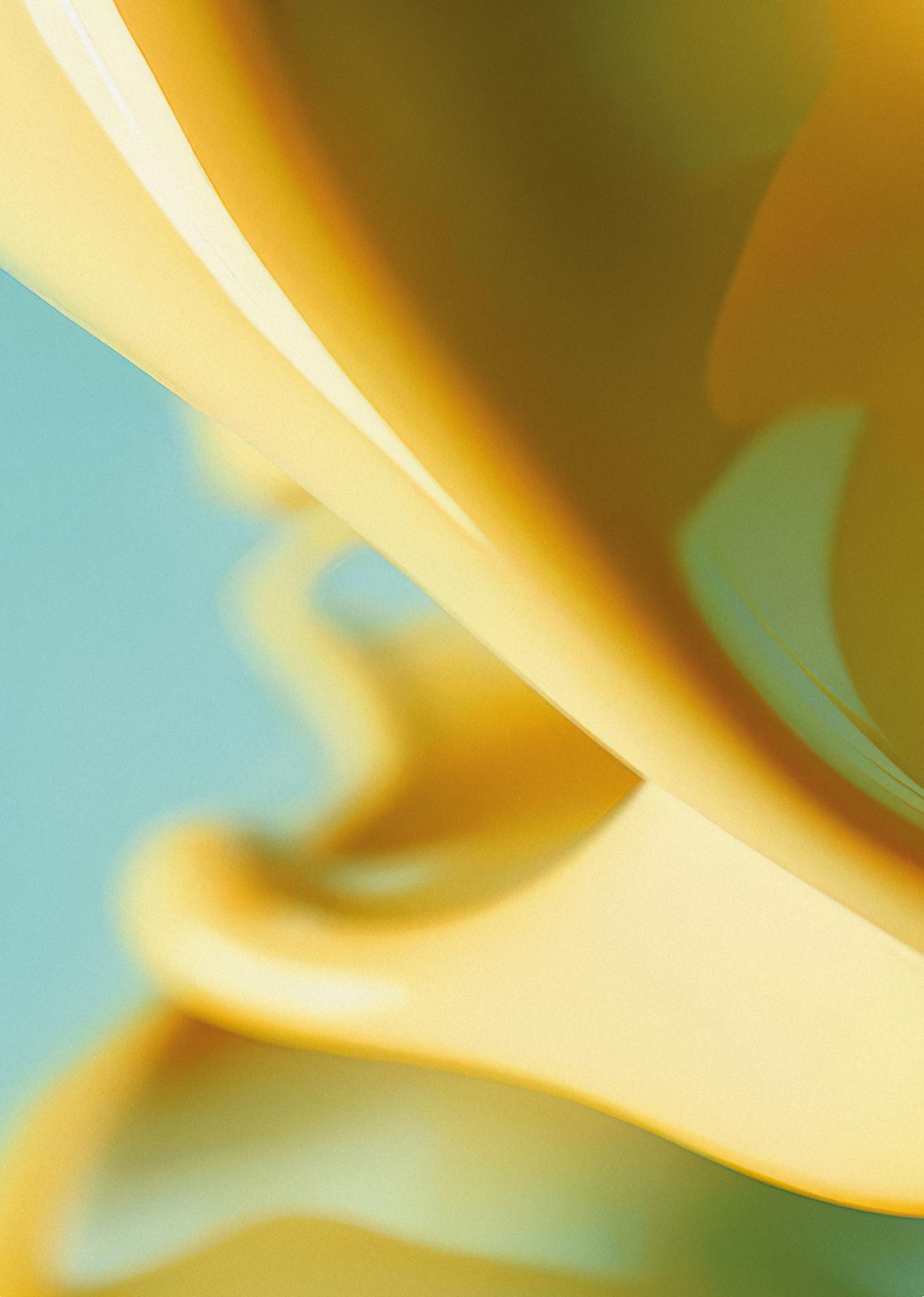
# dx validation curing matrix

	denture/C&B					aligner/splint/surgical guide					model					tray/bt/cast				
	denture	denture impact	denture flex	crown	temp	tylin	so direct	aligner	splintmaster	splintmaster flex	splint 2.0	ortho	model 2.0	model pro	dx model basic	modelIT	gringiva	tray 2.0	bt	cast 2.0
<b>3M</b> TC																				
BB-Cure																				
BB-Cure N												405 nm								
<b>phrozen</b> Phrozen Cure																				
<b>ivoclar</b> PrografPrint Cure																				
<b>formlabs</b> Form Cure (2nd Generation) Form Cure																				
<b>Hi-Clear</b> PCU Pro																				
PCU 3.0																				
<b>Qore</b> PCULED N2																				
<b>SHINING 3D</b> DENTAL FabCure																				
<b>Qualification</b>																				

Date: 02/2026

● validated ● in process





# detax

## Discover our best 3D resins



FDA ✓

MDR ✓

Health Canada ✓



**detax**

**detax GmbH**

Carl-Zeiss-Str. 4 • 76275 Ettlingen/Germany  
T +49 7243 510 0 • F +49 7243 510 100  
post@detax.com • detax.com