FREEPRINT[®]

HIGHCLASS 3D DENTAL RESINS



>> PRODUCT CATALOGUE <<
2023





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PRODUCT OVERVIEW 3D PREMIUM RESINS



Removable denture bases

Total prothesis

DENTURE

enture teeth FREEPR Long-term temp. bridges CROWN



DETAX





Individual impression trays

FREEPRINT® MODEL PRO

YEAR

unctional trays

Model production

Working models Situation models

Control models

Base plates

DETAX

» MODELP

MODEL DELESSOR

























FREEPRINT[®] TRYIN Individual functional



FREEPRINT® SPLINTMASTER Flexible splints



FREEPRINT[®] MODEL



FREEPRINT® MODEL KFO Model production



FREEPRINT[®] GINGIVA





FREEPRINT® DENTURE Removable denture bases Total prothesis





FREEPRINT® ORTHO Surgical guides, autoclavable Orthodontic base components





FREEPRINT[®] IBT Transfer tray \bigcirc Bracket positioning





FREEPRINT[®] MODEL 2.0 Model production Master models





Model production Thermoforming technique





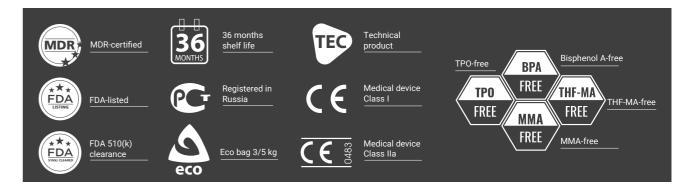


FREEPRINT[®] MATRIX

Material type	Application	Color	Characteristics	Medical Devices Class MDR	Medical Devices Class FDA	Medical Devices Class NMPA
TEMP	 Temporary crowns & bridges Temporary anterior and posterior tooth restorations 	A1, A2, A3	 Natural transparency and tooth esthetics Extremely high construction precision High mechanical stability Biocompatible 	lla	II	-
CROWN	 Permanent crowns, denture teeth Long-term temporary bridges 	A1, A2, A3, B1, B3, C2, D3, BL	 Natural transparency and tooth esthetics Highest abrasion resistance 	lla	II	-
DENTURE	Removable denture bases Total prothesis	Pink-transparent, pink	 Long-term stable and biocompatible dentures Fast printing Perfect fit 	lla	II	-
DENTURE IMPACT	Removable denture bases Total prothesis	Pink-transparent, pink	 Long-term stable and biocompatible dentures High impact resistance Easy post-processing 	in process	in process	-
TRYIN	 Individual functional try-ins 	A2	 Fast, material-saving production High mechanical stability 	lla	I	-
ORTHO	 Surgical guides for implant dentistry Orthodontic base components 	Clear- transparent	 Very high mechanical stability & construction precision High printing speed Sterilizable Biocompatible 	lla	I	TEC resin
SPLINT 2.0	Hard splints	Clear- transparent	 High mechanical flexural strength and stability High initial final hardness Biocompatible 	lla	L	TEC resin
SPLINTMASTER	 Flexible splints Repositioners Mouthguards Nightguards 	Clear- transparent	 Flexible High tensile strength High tension-free wearing comfort 	lla	II	-
IBT	Orthodontic transfer trays for positioning brackets	Transparent	 Elastic and tear-resistant Reliable fixing of brackets Biocompatible 	I	I	-
TRAY 2.0	 Individual impression trays Functional impression trays Base resin plates 	Green	 High dimensional stability, torsional rigidity Max. construction speed Compatible with all impression materials Biocompatible 	I	I	MED resin

Material type	Application	Color	Characteristics	Medical Devices Class MDR	Medical Devices Class FDA	Medical Devices Class NMPA
MODEL	 Dental working and situation models Control models 	Ivory, grey, sand	 Maximum surface hardness Dimensional stability Comfortable haptic Very good production precision 	TEC resin	TEC resin	I
MODEL 2.0	 Dental master and working models Control models 	Caramel, grey, light grey, sand	 High detail reproduction Maximum surface hardness and dimensional stability Plaster-like apprearance and haptic Very good construction precision 	TEC resin	TEC resin	I
MODEL PRO	 Dental working and situation models Control models 	Caramel, grey, sand	 Plaster-like haptic Good dimensional stability High flexural strengths Easy post-processing 	TEC resin	TEC resin	in process
MODEL KFO	 Laboratory model preparation Orthodontic models 	White	 Plaster-like haptic Distinctive edge and dimension stability Highest surface quality 	TEC resin	TEC resin	-
MODEL T	Working models for thermoforming technique and aligner technology	Light blue	 High temperature resistance to process-related temperature stress High edge strength 	TEC resin	TEC resin	I
MODEL WW	 Working models for thermoforming technique and aligner technology 	Blue-transparent	Water-washable High temperature resistance	TEC resin	TEC resin	-
GINGIVA	 Flexible gingival masks for dental models 	Gingiva	 3D reproduction of functional gingival model segments Excellent elasticity and tear resistance Natural gingiva esthetics 	TEC resin	TEC resin	I
CAST 2.0	Dental casting objects for precision casting	Red-transparent	 Residue-free burning out High dimensional stability after printing Precise and distortion-free results, even for delicate constructions 	TEC resin	TEC resin	I

MDR Medical Device Regulation EU FDA Food and Drug Administration USA NMPA National Medical Products Administration China





FREEPRINT[®] TEMP

TEMPORARY CROWNS & BRIDGES ANTERIOR AND POSTERIOR RESTORATIONS

Light-curing formulation for 3D printing of temporary crowns and bridges. **Colors:** A1, A2, A3

Wavelength: 385 nm Medical device Class IIa

• High breaking strength

- Short post-processing
- Low material consumption
- MMA- & THF-MA-free







*** <u>FDA</u>



PC



MMA

FREE

THF-M*a*

FREE

FREEPRINT 3D PRINTING MATERIA

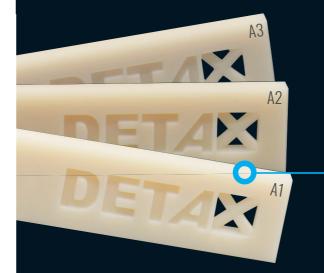
TEMP

DETAX

Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 10477 ¹⁾	MPa	> 100
Flexural modulus	DIN EN ISO 10477 ¹⁾	MPa	> 2300
Water absorption	DIN EN ISO 10477 ¹⁾	µg/mm³	< 40
Solubility	DIN EN ISO 10477 ¹⁾	µg/mm³	< 7.5
Hardness	_	Barcol	> 40
Biocompatibility	DIN EN ISO 10993-1 ²⁾	-	fulfilled

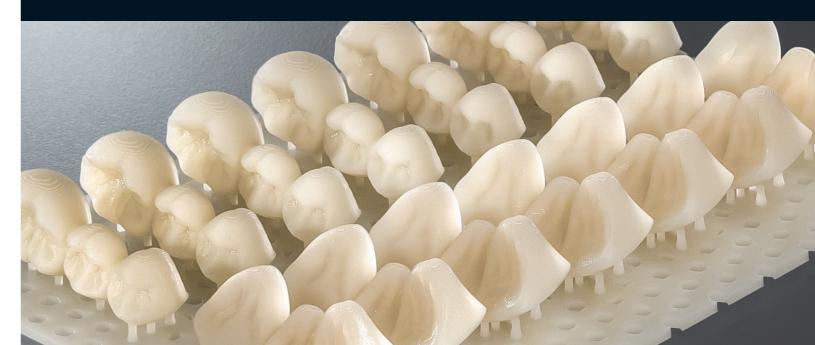
¹⁾ Crown and veneering resins (in keeping with the standard at room temperature)
 ²⁾ Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system

04058	FREEPRINT [®] TEMP A1	500 g
04059	FREEPRINT® TEMP A2	500 g
04060	FREEPRINT® TEMP A3	500 g
04062	FREEPRINT® TEMP A1	1.000 g
04063	FREEPRINT® TEMP A2	1.000 g
04064	FREEPRINT® TEMP A3	1.000 g

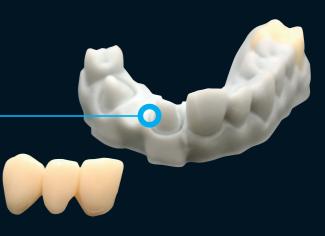


Temporary restorations provide a high level of oral stability and in conjunction with tempolink[®], enable excellent marginal seal during the period of wear.





The natural-looking translucent shades (according to VITA classical A1–D4 shade guide) can be esthetically modified for single-crown and bridge restorations.



Easy polishing results in very high surface quality with exceptional abrasion resistance.

FREEPRINT® CROWN

PERMANENT CROWNS DENTURE TEETH LONG-TERM TEMPORARY BRIDGES

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

Colors: A1, A2, A3, B1, B3, C2, D3, BL **Wavelength:** 385 nm **Medical device Class Ila**

- Highest fracture stability during the entire wearing time
- Fast, uncomplicated cleaning process
- Easy grinding and polishing due to minimal surface chalking
- MMA- & THF-MA-free









Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 10477 ¹⁾	MPa	>100
Flexural modulus	DIN EN ISO 10477 ¹⁾	MPa	> 2800
Water absorption	DIN EN ISO 10477 ¹⁾	µg/mm³	< 40
Solubility	DIN EN ISO 10477 ¹⁾	µg/mm³	< 7.5
Hardness	-	Barcol	> 50
Biocompatibility	DIN EN ISO 10993-1 ²⁾	-	fulfilled

¹⁾ Crown and veneering resins (in keeping with the standard at room temperature)

²⁾ Biological assessment of medical devices - Part 1: Assessment and testing in the context of a risk management system

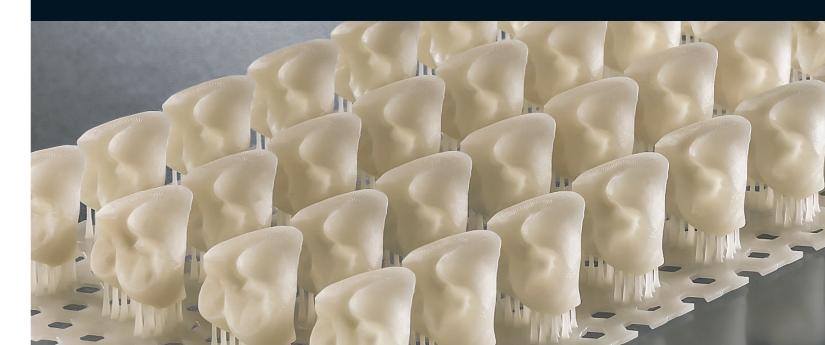
FREEPRINT® CROWN A1	500 g	02372	1.000 g	02376
FREEPRINT [®] CROWN A2	500 g	02378	1.000 g	02415
FREEPRINT [®] CROWN A3	500 g	02417	1.000 g	02446
FREEPRINT [®] CROWN B1	500 g	02481	1.000 g	02519
FREEPRINT [®] CROWN B3	500 g	02645	1.000 g	02758
FREEPRINT [®] CROWN C2	500 g	02766	1.000 g	02782
FREEPRINT [®] CROWN D3	500 g	02783	1.000 g	02825
FREEPRINT [®] CROWN BL	500 g	02845	1.000 g	02884





Optimum dimensional stability of the restorations due to maximum bending and abrasion resistance.





Wide range of shades with natural esthetics (according to VITA classical A1–D4 shade guide) due to perfectly matched translucency and opacity.



No tendency to discolor thanks to low water absorption.

FREEPRINT® DENTURE

REMOVABLE DENTURE BASES TOTAL PROTHESIS

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

Colors: pink-transparent, pink Wavelength: 385 nm Medical device Class IIa

• Very high surface quality, excellent to polish

- Extremely low shrinkage values compared to PMMA materials
- High wearing comfort
- MMA- and THF-MA-free, tasteless



FREEPRINT

D PRINTING MATERIA

ENTUR

MOVABLE

DETAX

36 MONTHS eco *** <u>FDA</u> 0483 **3)** (MDR)

Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 20795-1 ¹⁾	MPa	>100
Flexural modulus	DIN EN ISO 20795-1 ¹⁾	MPa	> 2500
Water absorption	DIN EN ISO 20795-1 ¹⁾	µg/mm³	< 32
Solubility	DIN EN ISO 20795-1 ¹⁾	µg/mm³	< 1.6
Hardness	-	Shore D	>83
Biocompatibility	DIN EN ISO 10993-12)	-	fulfilled

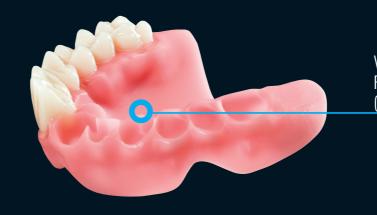
¹⁾ Dentistry: Denture resins (in keeping with the standard at room temperature)

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

FREEPRINT [®] DENTURE pink-transparent	500 g	02060	
FREEPRINT® DENTURE pink-transparent	1.000 g	02040	5 kg 03518
FREEPRINT® DENTURE pink	1.000 g	04092	5 kg 03298



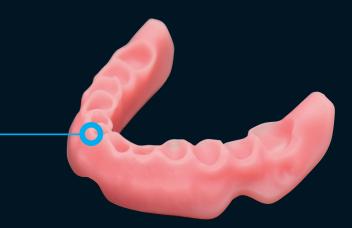
The rigid denture base withstands high loads in the oral environment.





10

Natural aesthetics and a light transparency enable alignment with natural gingival color.



Validated with the VITA VIONIC VIGO System. Fully compatible with prefabricated, 3D printed (FREEPRINT® CROWN) or milled teeth.

FREEPRINT® DENTURE IMPACT

REMOVABLE DENTURE BASES TOTAL PROTHESIS

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

Colors: pink-transparent, pink **Wavelength:** 385 nm **Medical device Class Ila**

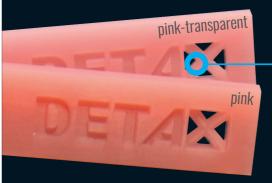
- Increased impact strength
- Very high wearing comfort
- Quick processing, easy to polish
- MMA-, THF-MA- and TPO-free, tasteless



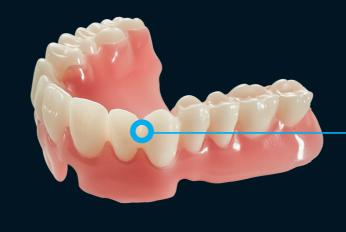
Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 20795-11)	MPa	> 65
Flexural modulus	DIN EN ISO 20795-11)	MPa	> 2000
Water absorption	DIN EN ISO 20795-1 ¹⁾	µg/mm³	< 32
Solubility	DIN EN ISO 20795-1 ¹⁾	µg/mm³	< 1.6
Hardness	-	Shore D	> 80

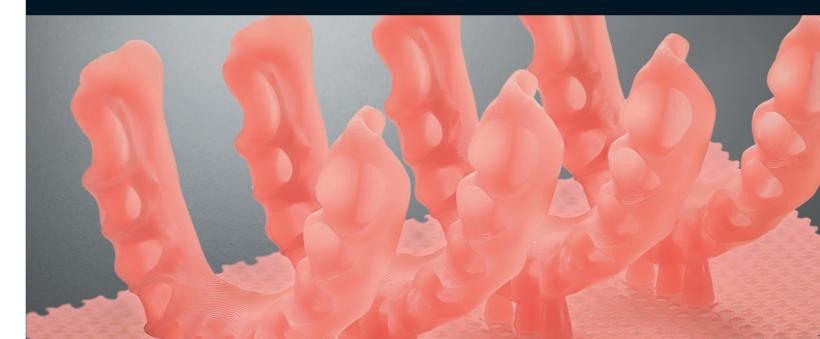
¹⁾ Dentistry: Denture resins (in keeping with the standard at room temperature)





The increased impact strength provides extremely high fracture stability and ensures lasting functionality over the entire wearing time.





04436	FREEPRINT® DENTURE IMPACT pink-transparent*	1.000 g
04437	FREEPRINT® DENTURE IMPACT pink*	1.000 g

*approx. available 2024

Colors and transparency optimally adapted to classic denture resins.



Compatible with fabricated, printed (FREEPRINT® CROWN) or milled teeth.

FREEPRINT® TRYIN

INDIVIDUAL FUNCTIONAL TRY-INS

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

Color: A2 Wavelength: 385 nm Medical device Class IIa

- Fast, material-saving production of functional try-ins
- Easy control of phonetics
- Easy to process
- MMA- & THF-MA-free



Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 1781)	MPa	> 100
Flexural modulus	DIN EN ISO 1781)	MPa	> 2200
Hardness	-	Shore D	> 85

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

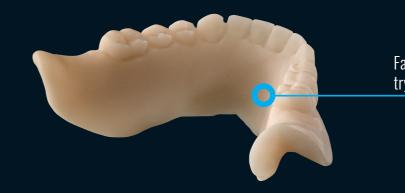


THF-MA

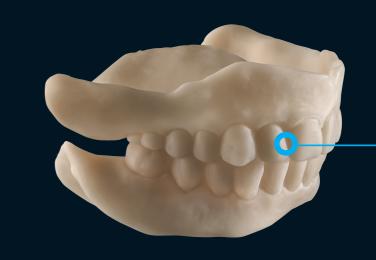
FREE

MMA

FREE



Easy verification of fit function and occlusion.





04427

FREEPRINT® TRYIN A2

1.000 g

14

Fast and easy additive manufacturing of functional try-ins of individual tooth setups.



Functional try-ins for complete and partial dentures, in esthetically pleasing tooth shade.

FREEPRINT® ORTHO

SURGICAL GUIDES, AUTOCLAVABLE **ORTHODONTIC BASE COMPONENTS**

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

Color: clear-transparent Wavelength: 385 nm Medical device Class IIa

• Validated for autoclave sterilization according to EN ISO 17664!

- Very high mechanical stability
- Compatible with FREEFORM[®] fixgel
- MMA-free, tasteless



FREEPRINT

DETAX



MDR



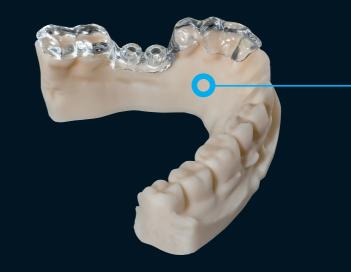




Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 20795-21)	MPa	> 75
Flexural modulus	DIN EN ISO 20795-21)	MPa	> 1650
Water absorption	DIN EN ISO 20795-2 ¹⁾	µg/mm³	< 32
Solubility	DIN EN ISO 20795-2 ¹⁾	µg/mm³	< 5
Hardness	-	Shore D	> 82
Biocompatibility	DIN EN ISO 10993-1 ²⁾	-	fulfilled

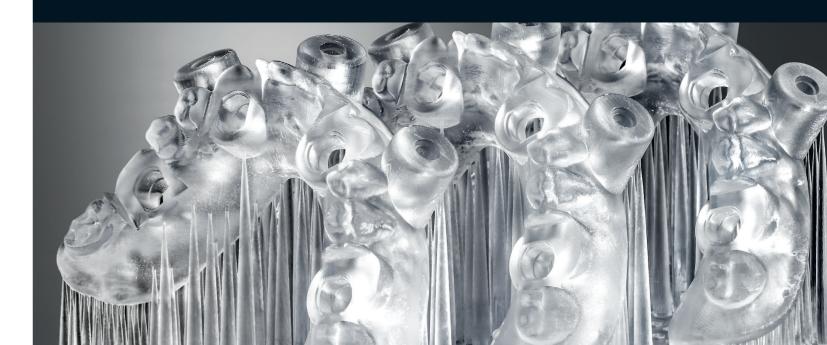
¹⁾ Dentistry: Orthodontic resins (in keeping with the standard at room temperature)
 ²⁾ Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system



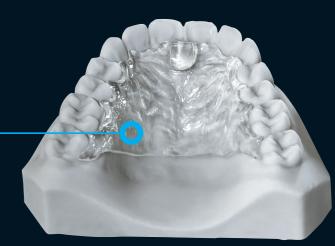


For printing hard resin parts of orthodontic appliances.





The crystal-clear material allows reliable control of the working area during drilling.



Precise positioning and fixation of the drill sleeves enable safe positioning for the patient.

FREEPRINT® SPLINT 2.0

HARD SPLINTS

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

Color: clear-transparent Wavelength: 385 nm Medical device Class IIa

• Easy to polish

- Highest bending & breaking strength
- High accuracy of fit
- MMA- and THF-MA-free, tasteless



FREEPRINT

3D PRINTING MATERIA

PLINT 2

DETAX

36 MONTHS **1 1 1 1 1 1**

Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 20795-2 ¹⁾	MPa	> 80
Flexural modulus	DIN EN ISO 20795-21)	MPa	> 2000
Water absorption	DIN EN ISO 20795-21)	µg/mm³	< 32
Solubility	DIN EN ISO 20795-21)	µg/mm³	< 5
Hardness	-	Shore D	> 80
Biocompatibility	DIN EN ISO 10993-1 ²⁾	-	fulfilled

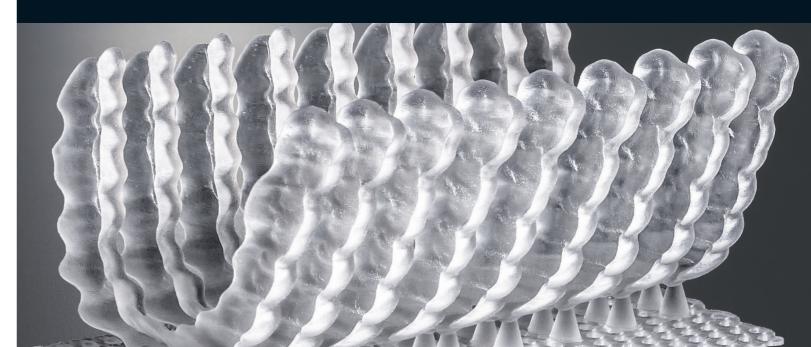
¹⁾ Dentistry: Orthodontic resins (in keeping with the standard at room temperature) ²⁾ Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system

02080	FREEPRINT® SPLINT 2.0	500 g
02076	FREEPRINT® SPLINT 2.0	1.000 g



Transparent, mouth-resistant and easy to clean.





Hard occlusal splint, rigid type, with high efficiency.



Compatible with FREEFORM® plast/gel for additional occlusal design in practice.

FREPRINT[®] SPLINTMASTER

FLEXIBLE SPLINTS REPOSITIONERS **MOUTHGUARDS NIGHTGUARDS**

Light-curing formulation for 3D printing of flexible splints, repositioners, mouthguards and nightguards. In two levels of flexibility: Taff & Flex.

Color: clear-transparent Wavelength: 385 nm Medical device Class IIa

- Flexible and fracture-resistant
- High, tension-free wearing comfort
- Easy to polish
- MMA-, THF-MA- and TPO-free, tasteless

Parameters	Standard	Unit	Res taff	ults flex
Tensile strength	DIN EN ISO 527-1 ¹⁾	MPa	> 40	> 25
Tensile elongation	DIN EN ISO 527-11	wir a	> 20 %	> 50 %
Tear propagation resistance	DIN EN ISO 34-1 ²⁾	– N/mm	> 140	> 110
Hardness	DIN LN 130 34-1	Shore D	> 140	> 65
Water absorption	– DIN EN ISO 20795-2 ³⁾	μg/mm ³		
•			< 32	< 32
Solubility	DIN EN ISO 20795-2 ³⁾	µg/mm³	< 5	< 5

 Resins: Determination of tensile strength (in keeping with the standard at room temperature)
 Thermoplastic elastomers: Determination of tear propagation resistance (in keeping with the standard at room temperature) ³⁾ Dentistry: Orthodontic resins (in keeping with the standard at room temperature)

04433	FREEPRINT [®] SPLINTMASTER TAFF	1.000 g
04432	FREEPRINT® SPLINTMASTER FLEX	1.000 g



FREEPRINT

3D PRINTING MATERIAL

SPLINTMASTER

FLEXIBLE SPLINTS & NIGHTGUARDS

DETAX



Wide range of applications, e.g. bite splints, mouth guards, bite plates.





Clear-transparent, flexible splints for pleasant wearing comfort.



The flexible splints are extremely easy to maintain, clean and polish.

FREEPRINT® IBT

TRANSFER TRAY BRACKET POSITIONING

Light-curing formulation for 3D printing of flexible orthodontic transfer trays for positioning brackets.

Color: transparent Wavelength: 385 nm Medical device Class I

• Soft-elastic

- Secure bracket mounting
- Easy to remove from the mouth
- Bisphenol A-, MMA- and THF-MA-free



BPA

FREE

MMA

FREE

THF-MA

FREE

FREEPRINT

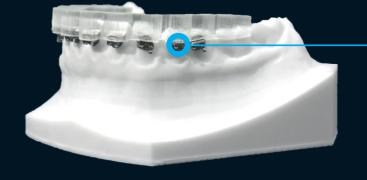
DETAX

Parameters	Standard	Unit	Results
Tensile strength	DIN EN ISO 527-1 ¹⁾	MPa	> 8
Tensile elongation	DIN EN ISO 527-1 ¹⁾	-	> 60 %
Tear propagation resistance	DIN EN ISO 34-12)	N/mm	> 35
Hardness	-	Shore A	> 90
Biocompatibility	DIN EN ISO 10993-1 ³⁾	-	fulfilled

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

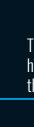
²⁾ Thermoplastic elastomers: Determination of tear propagation resistance (in keeping with the standard at room temperature) ³⁾ Biological assessment of medical devices – Part 1: Assessment and testing in the context of a risk management system

04248	FREEPRINT® IBT	500 g
04249	FREEPRINT [®] IBT	1.000 g



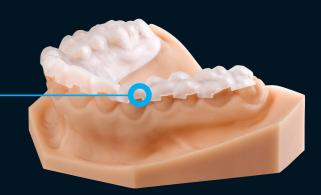
The transparent bracket transfer templates allow easy visual control.







Easy, precise positioning and application of the brackets due to the indirect bonding technique.



The high tensile strength and flexibility provide hassle-free placement and subsequent removal of the templates in one single work step.

FREEPRINT® TRAY 2.0

INDIVIDUAL IMPRESSION TRAYS **FUNCTIONAL TRAYS BASE PLATES**

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

Color: green Wavelength: 380 - 405 nm Medical device Class I

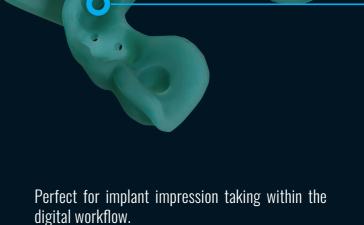
- High bending & breaking strength
- Low viscosity
- Printable with 200 µm layer thickness
- MMA- and THF-MA-free, tasteless

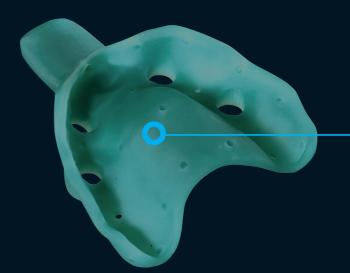


Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 1781)	MPa	> 90
Flexural modulus	DIN EN ISO 1781)	MPa	> 1900
Hardness	_	Shore D	> 84
Biocompatibility	DIN EN ISO 10993-12)	-	fulfilled

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









02505

FREEPRINT® TRAY 2.0

1.000 g

THF-MA

FREE

FREEPRINT

3D PRINTING MATERIAL

RAY 2.0

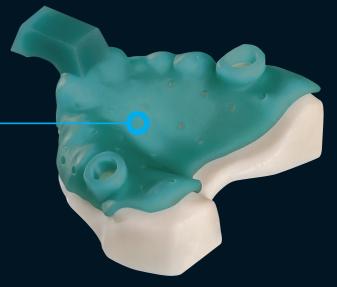
INDIVIDUAL

DETAX

MMA

FREE

Highest dimensional stability and torsional rigidity for accurate and distortion-free impression taking.



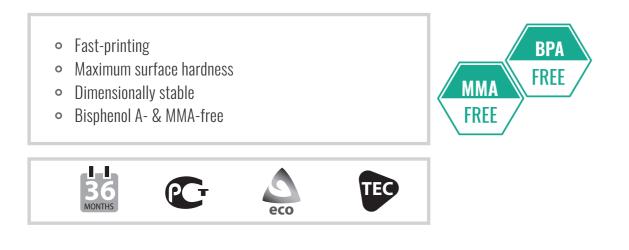
Compatible for all tray adhesives and impression materials.

FREEPRINT® MODEL

MODEL PRODUCTION WORKING MODELS SITUATION MODELS CONTROL MODELS

Light-curing formulation for 3D printing of dental master and working models.

Colors: ivory, gray, sand **Wavelength:** 380 – 405 nm **Technical product**



Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 1781)	MPa	>70
Flexural modulus	DIN EN ISO 1781)	MPa	>1500
Hardness	-	Shore D	> 80

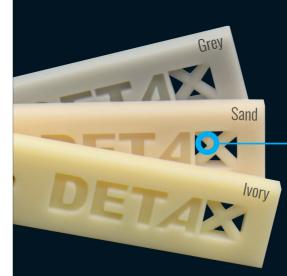
FREEPRINT

MODEL

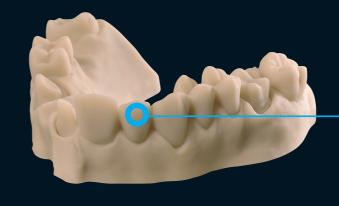
DETAX

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

03780	FREEPRINT® MODEL ivory	1.000 g
03782	FREEPRINT [®] MODEL grey	1.000 g
03778	FREEPRINT [®] MODEL sand	1.000 g
04321	FREEPRINT [®] MODEL sand	5 kg

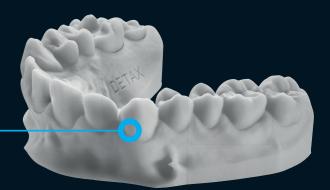


The high mechanical strength ensures the functionality and loading of the models.





Haptics and stability meet the high requirements in model making.



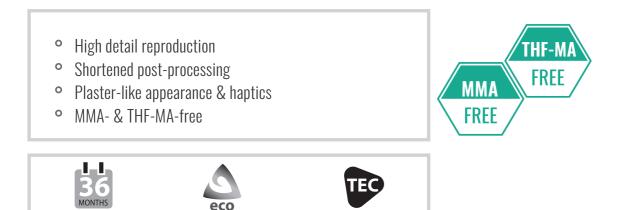
Perfect detail reproduction due to plaster-like colors: grey, ivory, sand.

FREEPRINT® MODEL 2.0

MODEL PRODUCTION MASTER MODELS WORKING MODELS CONTROL MODELS

Light-curing formulation for 3D printing of dental models, master models, situation and orthodontic models.

Colors: caramel, grey, light grey, sand, white **Wavelength:** 380 – 405 nm **Technical product**



Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 1781)	MPa	> 80
Flexural modulus	DIN EN ISO 1781)	MPa	> 1700
Hardness	-	Shore D	> 80

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

Caramel	1.000 g 02850	5 kg 04015
Grey	1.000 g 02177	5 kg 04106
Light grey	1.000 g 02099	5 kg 04107
Sand	1.000 g 02128	5 kg 04117
White*	1.000 g 02148	5 kg 04118

* not THF-MA free

FREEPRINT

IODEL 2.0

DETAX

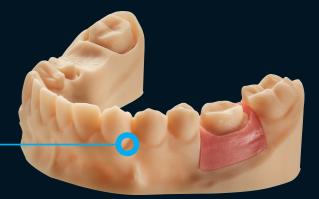


The distinct edge stability and abrasion resistance make the models comparable to conventional plaster models in terms of handling.





Wide range of plaster-like colors: white, caramel, grey, light grey, sand.



The extremely durable model surfaces are functionally highly durable.

FREEPRINT® MODEL PRO

MODEL PRODUCTION WORKING MODELS SITUATION MODELS CONTROL MODELS

Light-curing formulation for 3D printing of dental master and working models.

Colors: caramel, grey, sand **Wavelength:** 380 – 405 nm **Technical product**



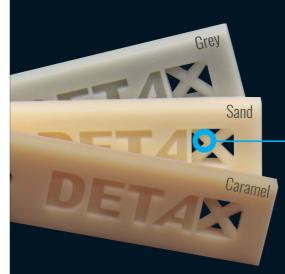
Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 1781)	MPa	> 90
Flexural modulus	DIN EN ISO 1781)	MPa	> 2000
Hardness	-	Shore D	> 82

FREEPRINT

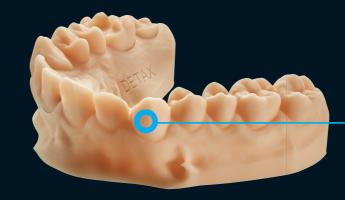
DETAX

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

04440	FREEPRINT® MODEL PRO caramel	1.000 g
04438	FREEPRINT [®] MODEL PRO grey	1.000 g
04439	FREEPRINT® MODEL PRO sand	1.000 g

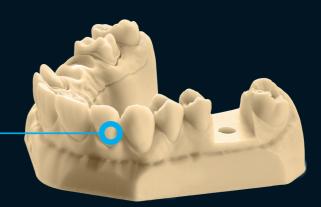


The further increase in mechanical strength contributes to optimum functionality.





The technical setting of the material meets all requirements for color and its appearance, as well as the haptics.



The formulation has been revised according to the latest REACH Regulation.

FREEPRINT® MODEL T

MODEL PRODUCTION THERMOFORMING TECHNIQUE

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

Color: light blue **Wavelength:** 380 – 405 nm **Technical product**





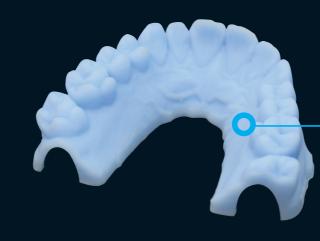
Parameters	Standard	Unit	Results
Working temperature for thermoformin	ng sheets	С	≤ 195
Flexural strength	DIN EN ISO 1781)	MPa	> 80
Flexural modulus	DIN EN ISO 1781)	MPa	> 1700
Hardness	-	Shore D	>83

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

02332	FREEPRINT® MODEL T	1.000 g
04322	FREEPRINT® MODEL T	5 kg



The stability of the models is preserved even during heating in thermoforming.



FREEPRINT 3D PRINTING MATERIAL

MODELT

DETAX



Maximum surface hardness and edge strength of the models.



The pronounced intrinsic stability enables manufacture of hollow thermoformed models.

FREEPRINT® MODEL WW

MODEL PRODUCTION THERMOFORMING TECHNIQUE

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

Color: blue-transparent **Wavelength:** 380 – 405 nm **Technical product**

• Water-washable

- No use of solvent necessary
- High temperature resistance
- Cost-efficient model production
- MMA- & THF-MA-free







FREEPRINT 3D PRINTING MATERIAL

MODELww

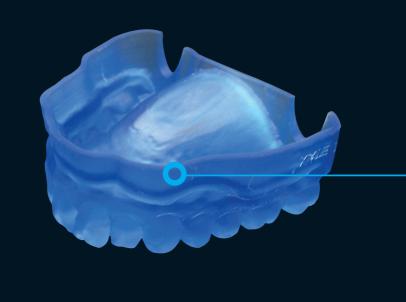
DETAX

Parameters	Standard	Unit	Results
Working temperature for thermoformi	ng sheets	°C	≤ 195
Flexural strength	DIN EN ISO 1781)	MPa	> 85
Flexural modulus	DIN EN ISO 1781)	MPa	>1800
Hardness	-	Shore D	> 82

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



The stability of the models is not affected by the heat.





1.000 g

The water-washable material meets all requirements for digitally produced models in thermoforming.



The high edge strength and good intrinsic stability of the material allow production of hollow thermoformed models.

FREEPRINT® GINGIVA

GINGIVAL MASKS

Light-curing formulation for 3D printing of flexible gingival masks for dental models. **Color:** gingiva **Wavelength:** 380 – 405 nm

Technical product

• Excellent elasticity and tear resistance

- Natural gingiva esthetics
- Dimensionally stable
- No subsequent shrinkage
- Bisphenol A-, MMA- and THF-MA-free

TEC MONTHS

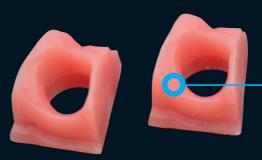
	BPA	
	FREE	THF-MA
	MMA	FREE
$\left\langle \right\rangle$	FREE	7

Parameters	Standard	Unit	Results
Tensile strength	DIN EN ISO 527-11)	MPa	> 3
Tensile elongation	DIN EN ISO 527-11)	-	>90 %
Hardness	_	Shore A	>70

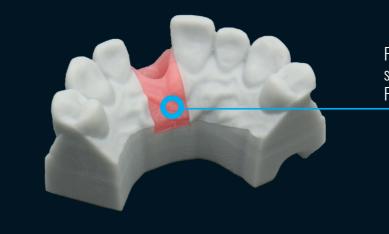
¹⁾ Resins: Determination of tensile strength (in keeping with the standard at room temperature)

02820	FREEPRINT® GINGIVA	500 g
02843	FREEPRINT [®] GINGIVA	1.000 g





No annoying or unpleasant odors from the completed gingival masks.





Permanently ductile, even during long storage.



For 3D reproduction of functional gingival model segments in a digital workflow, in combination with FREEPRINT® MODEL.

FREEPRINT® CAST 2.0

CASTING OBJECTS

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

Color: red-transparent **Wavelength:** 380 – 405 nm **Technical product**

- Residue-free burning out
- Distortion-free and precise, even for delicate constructions
- Suitable for phosphate-bonded embedding materials
- Low viscosity for fast cleaning
- MMA & THF-MA free





Parameters	Standard	Unit	Results
Flexural strength	DIN EN ISO 1781)	MPa	>70
Flexural modulus	DIN EN ISO 1781)	MPa	> 1700
Bakeout temperature	-	-	1 h @ 800 °C
Combustion residue	-	-	< 0.1%

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

02548	FREEPRINT® CAST 2.0	500 g
02632	FREEPRINT® CAST 2.0	1.000 g



FREEPRINT

CAST 2.0

DETAX



Any corrections or repairs after printing are possible with easyform gel LC.





Reliable precision for cast objects.



Distortion-free and stable, even with delicate frameworks. Enables direct FIT CHECK.

PROCESS VALIDATION PRINTER

CERTIFIED VALIDATED Reliable

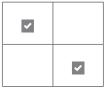


									— 385 r	ım ——						405 nm							
	Qualification Done In process On request	ASIGA Max / Mini	ASIGA Pico2	ASIGA PRO2	ASIGA PRO 4K	Rapid Shape D10 / D20 Series	Rapid Shape D30 / D40 Series	Rapid Shape D50+ Series	Rapid Shape DTO /D90 Series	Straumann P Series	Ivoclar PrograPrint PR5	MICROLAY Versus	Miicraft Alpha Series	Micraft Prime / Hyper Series	Miicraft Ultra Series	Miicraft Profession / Advance Series	W2P SolFlex	Ackuretta SOL	Microlay Eve Pro	Phrozen Sonic 4K / XL	Prusa Research MEDICAL ONE	Shining 3D Accu-Fab D1s	Shining 3D Accu-Fab L4D
	TEMP	~	~	~	~	~	~		~	~	~	~	~	~	~	~	~		•		•	•	•
	CROWN	v	•	•	~	~	~			~	~	~			•	•			•		•	•	•
	DENTURE	~	~	~	~	~	✓		•	~		~	v	~	~	~	~		•		•	•	•
FREEPRINT® MED	DENTURE IMPACT		•	•					•							•		•	•	•	•	•	•
REPR	ORTHO	~	~	~	~	~	~		~	~		~	~	v	~	~	~	405 nm	405 nm	405 nm	405 nm	405 nm	405 nm
Ë	SPLINT 2.0	~	~	~	~	~	~		•	~	~	~	~	~	~	~	~						
	SPLINTMASTER	~	•	•	~	~	~		•	~	~												
	IBT	~	~	~	~	~	~		•	~		~	~	v	~	~	~						
	TRAY 2.0	~	~	~	~	~	~		•	~	~	~	~	~	~	~	~		•	•	•	•	•
	TRYIN	~	~	~	~	~	~		~	~		~	v	v	~	~	~	•	•		•	•	•
	MODEL	~	~	~	~	~	~			~		~		~	•	•	~		~	~			
	MODEL 2.0	~			~	~			•			~			•	•						~	
	MODEL PRO	~	•	•	~				•						•	•							
FREEPRINT® TEC	MODEL T	~		 ✓ 	~	✓			~			~		~	•	•	~			Image: Control of the second secon			
FR	MODEL WW	~			~																		
	GINGIVA	~			~	~	~			~	~	~		~	•	•	~		~	~		~	
	CAST 2.0		~	~	✓		~		•	~	~	~			•	•	Image: Control of the second secon		Image: A state of the state			~	
EC	Primenrint																						
CO-BRANDING MED & TEC																							
CO-E	SHERAprint Splint Taff/Flex (made by DETAX)																						





Shera SHERAprint Series



PROCESS VALIDATION CURING DEVICES

		4	/	LED - h															
	Qualification Done In process On request	NK Optik Otoflash G171 N2	NK Optik Otoflash 250/500	Rapid Shape RS cure	Rapid Shape RS cure XL	Straumann P Cure	Ivoclar ProgaPrint Cure	Dentalfarm Photopol	Ackuretta CURIE Plus	Dreve PCU LED N2	Form Cure	Hey Gears PCU 3.0	Meccatronicore BB-Cure	Phrozen Cure	Prusa Research Medical CW one	Shining 3D FabCure		entsply Sirona imeprint PPU	Shera SHERAprint Cure
FREEPRINT® MED	TEMP	~		~		~	~	~				~							
	CROWN	~		~		~	~			•									
	DENTURE	~		~		~		~				~							
	DENTURE IMPACT																		
	ORTHO	~		~		~				•									
	SPLINT 2.0	~		•		•	~	~		•									
	SPLINTMASTER	~		~		~	~			•									
	IBT	~		~		~		~		•									
	TRAY 2.0	~		~		~	~	~											
	TRYIN	~		~		~		~											
FREEPRINT® TEC	MODEL																· _		
	innet	~		~		~		v			v		~	v		~			
	MODEL 2.0	~		~		>		~			~	•	~	~	~	~			
	MODEL PRO											•							
	MODEL T	~		~		~		~			~	•	~	v	v	~			
	MODEL WW	~		v		~		~											
	GINGIVA	~		~		>	>	>				•							
	CAST 2.0	~		v		>	>	>				•							
DING	Primeprint (made by DETAX)																	~	
CO-BRANDING MED & TEC	SHERAprint Splint Taff/Flex (made by DETAX)																		v
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CLEANING

The best cleaning results of the production jobs are achieved when pre- and post-cleaning are carried out in separate tanks in an ultrasonic unit. It is recommended to clean the bores/ openings with compressed air after cleaning with isopropanol.

DETAX EXPERTS@



version: January 24, 2024

GOOD TO KNOW ...

BOTTLE ROLLER

By using a roller mixer, optimum mixing of the material is achieved, thus preventing possible segregation. The Eco Bags can be homogenized with an appropriate attachment.

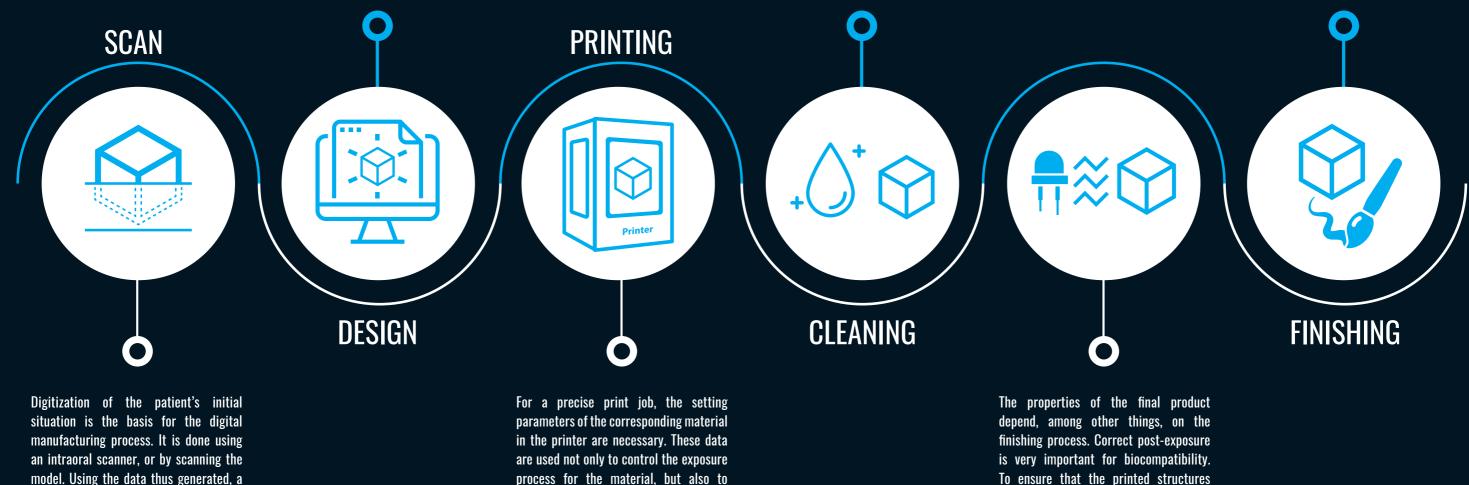
POST-CURING UNIT

The post-curing units recommended in the instructions for use ensure optimum through-hardening and surface curing, thus a biocompatible end product, and ensure high color brilliance and transparency, without discoloration.

3D WORKFLOW

After completion of the design (CAD), the slicing software prepares the objects for printing. The slicing process creates the individual layers to be exposed. The software serves as a translator between the 3D model and the 3D printer.

After printing, the non-polymerized material on the surface must be removed so as to leave no residue before the final post-exposure. Drain the production job off in the printer, then carry out a 2-stage secondary cleaning with isopropanol in an ultrasonic device. Cleaning can also be carried out in suitable separate devices.



three-dimensional surface structure is generated, which can then be transferred to a design software.

process for the material, but also to determine the corresponding movement mechanics of the printers. Coordination of these processes is the prerequisite for successful DLP/LCD printing of challenging structures.

Finally, the surface is finished as required, e.g. mechanically polished. Perfect fit, optimal product properties and reliable reproduction are the results of a validated and certified process.

are fully cured, post-exposure in devices with LED lamps under vacuum or xenon flashlight in an inert gas atmosphere is

recommended.



In addition to the 1-kg standard bottles, many FREEPRINT[®] materials are offered in practical 3- or 5-kg Eco Bags. The bags are perfect for frequent users and are handy to use: The 2 handles (top and bottom) make it easy to fill the printer tray. Highly pigmented materials can be homogenized with a roller mixer (with appropriate attachment). The empty bag can be rolled up to a tiny ball, thus taking up much less waste volume and generating less plastic waste. T





DETAX **MDR** CERTIFIED - 2020 — All FREEPRINT[®] Class IIa resins have been MDR-certified since

October 2020. Thus, DETAX 3D

materials are among the first of

its sector with MDR certification.

The 3D premium printing materials FREEPRINT[®] CROWN, FREEPRINT® TEMP and FREE-PRINT® DENTURE have received FDA 510(k) clearance.

Omdc EU- Qualitätsmanagementbescheinigung Carl-Zeiss Straße 76275 Ettingen Repatrier Nr. 01002700 Guite st. 2022-10-27 Guite bit: 2025-10-14 Stutigert, den 2222-10 ALL







Certificate registratic Certificate unique ID: Effective date: 2022 DETAX GmbH Carl-Zeiss-Straße 4 78275 Ettingen Germany udited site 382715 DETAX GmbH Cari-Zeiss-Straße -76275 Ettlingen

>> PRODUCTCLIPS ...HOW TO" FREEPRINT® TEMP





FREEPRINT® MODEL T





FREEPRINT® ORTHO









FREEPRINT® CAST





FREEPRINT® TRAY



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CERTIFICATION





DETAX printing resins have a premium shelf life of 36 months. The opaque materials are characterized by a particularly low sedimentation tendency during this period.







REPs FEI No.: site scope and country-specific requirements

Design, development, manufacture ar distribution of dental impression mate-relining materials, materials for tempo crowns and bridges, silicone tacquere impression materials, ear mould silico acrylic ear mould resins, orthopedic o compounds, dental cements, universi AUS (a), BRA; CND, JPN, U PEDa EEI No. - E000516





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