



CATALOGUE



Merz Dental

Services



www.merz-dental.com

RELIABLE SUCCESS THROUGH QUALITY, SAFETY AND SERVICE

For more than 70 years, Merz Dental has been developing, manufacturing and selling high-performance dental products to quality standards Made in Germany at the company headquarters and production site in Lütjenburg, on the coast of Schleswig-Holstein.

As a manufacturer of medical devices, a system provider for denture acrylics and acrylic teeth and specialist in CAD/CAM technologies, we supply quality materials for aesthetic and sustainable prosthetics in practices and laboratories. We sell our dental laboratory product portfolio as well as a large number of dental products and consumables all over the world - we accompany teeth for a lifetime. Merz Dental has set milestones: from the first fully anatomical tooth to the Baltic Denture System describes our history, the desire for improvement and optimised co-operation between dentists and dental technicians.

We focus with passion and competence on the desires and needs of our customers and strive to fulfill them. Our products are the result of real customer orientation and experience. That's why we at Merz Dental have achieved a leading global position as a medium-sized company in the German dental industry - we're proud of that.

DIGITAL DENTURE – 100 % YOUR WAY

From the scanning process to the CAD of models, splints or try-ins, up to the subtractive or additive manufacturing of aids or dentures - with Merz Dental your entry into the digital workflow is flexible and tailored to your needs. Profit from more precise results, increased process reliability and more efficiency. Add new technologies and innovative material developments to proven work processes.

ONLINE - INFORMATION

At www.merz-dental.com you will find detailed product information and interesting facts from our areas of expertise as well as our current General Terms and Conditions

- Areas of application
- Properties
- Ingredients
- Instructions for use
- Safety Data Sheets
- Downloads
- Work instructions
- Events, fairs and courses

Merz Dental

Merz Dental is certified according to EN ISO 13485 and thus offers the security and advantages of a future-oriented quality management system.

Further information





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DIGITAL DENTURE

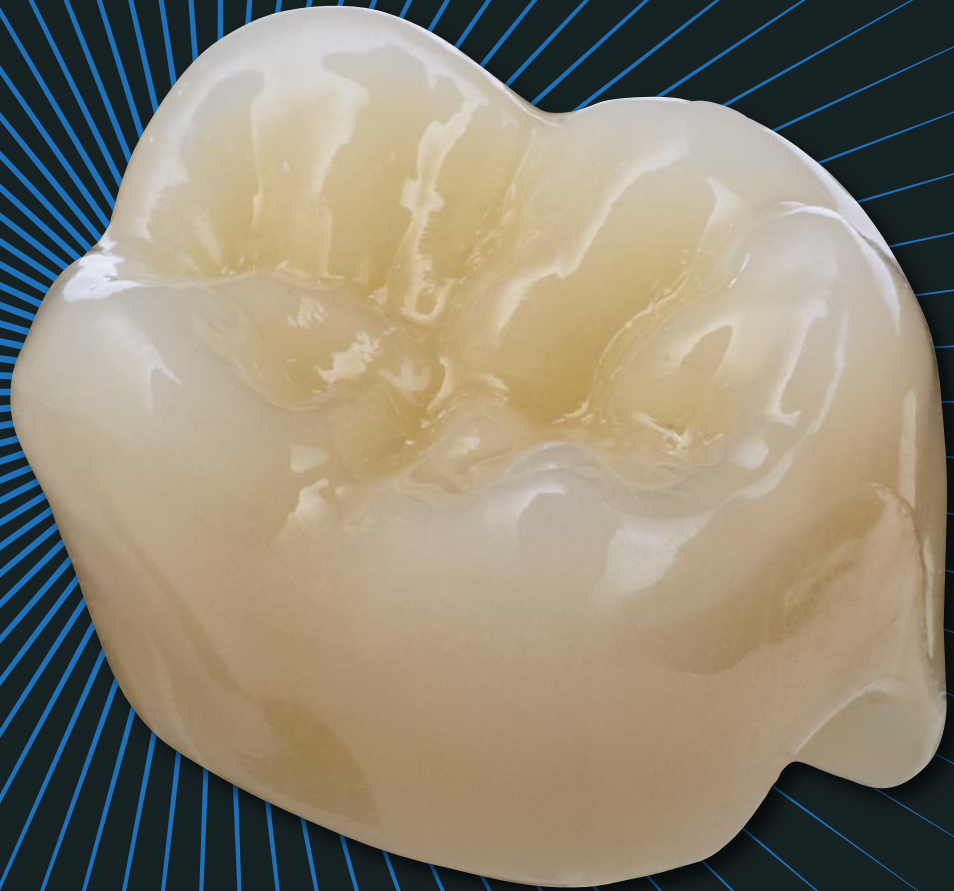
Baltic Denture System	118
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Teeth



★ LIFELIKE MOULDS

★ HIGH END QUALITY



★ 100 % MADE IN GERMANY



The modern Art of teeth



ANTERIORS



integral®

Fully anatomical, juvenile

5 layers



artegral® life

Fully anatomical

5 layers



Polystar® Selection EDITION

Semi anatomical

4 layers



Polystar® HK

Semi anatomical

3 layers





integral®

POSTERIOR



Fully anatomical, juvenile

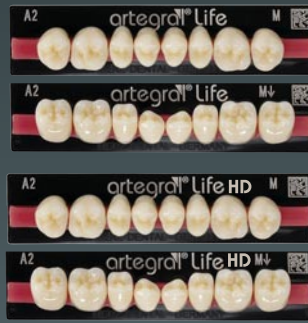
4 layers 30° PSG® Preventive Shift Groove



- ▶ For all customary set-up concepts
- ▶ Distinct centric occlusion by tripodization
- ▶ Freedom in centric

artegral® life

artegral® life HD



Fully anatomical, functional

4 layers 25° PSG® Preventive Shift Groove



- ▶ Cusp angle distal declining
- ▶ For all customary set-up concepts
- ▶ Easy handling with self-finding centric
- ▶ Integrated sagittal and transverse compensation curve
- ▶ Sagittal set-up aid

Polystar® Selection EDITION

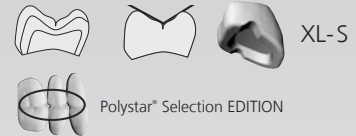
Polystar® Selection EDITION HD

Polystar® Selection EDITION 2

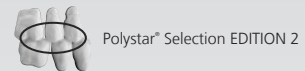


Semi anatomical

4 layers 15° PSG® Preventive Shift Groove



- ▶ Especially for fully balanced occlusion
- ▶ Quick, easy, effective
- ▶ Sagittal set-up aid



Polystar® HK



Semi anatomical

3 layers 15°



- ▶ Fully balanced occlusion

DeltaForm®

DeltaForm® HD



Semi anatomical, perfect for lingualized occlusion

3 layers 20°→15° PSG® Preventive Shift Groove



- ▶ Cusp angle distally declining
- ▶ Lingualized occlusion
- ▶ Self-finding centric
- ▶ Autonomous masticatory stability due to mortar-pestle-principle and abrasion facets



Tooth mould terminology

NATURAL, INDIVIDUAL AND EFFICIENT

The mould classification of prefabricated teeth is mainly based on the classic philosophies of LEE, BALTERS, HÖRAUF, WILD and KRETSCHMER.

This resulted in gender-unspecific classifications of the upper prefabricated anterior teeth according to square, rectangular, triangular, oval and round moulds, which in practice usually requires an extensive tooth inventory with the corresponding expense. However, the classic mould terminology neglects the morphology of natural female and male tooth moulds.

Based on the research results measuring anterior teeth on fully dentulous patients by Prof. Dr. Siebert (Free University of Berlin, now Charité), Merz Dental developed an innovative and recognised mould terminology, the patented CBI®-System.

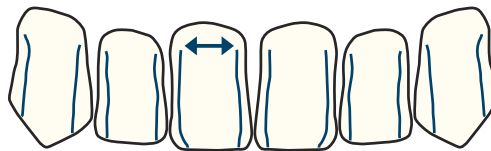
The classification of the C, B or I mould is based on the ratio between the maximum mesiodistal width and the enamel as well as light refracting flanges in relation to the outer perimeter of the upper anterior teeth. By this means in order to imitate feminine and masculine looking upper anterior teeth, a successful and contemporary mould system was developed for our veneers and tooth series integral®, artegral® life, artVeneer® life, Polystar® Selection EDITION and Polystar® Selection EDITION 2.



The CBI® System

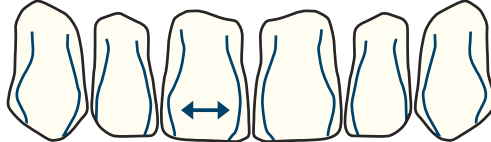
C-mould

cervical emphasized
striking, firm, masculine

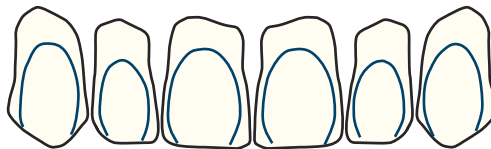


B-mould

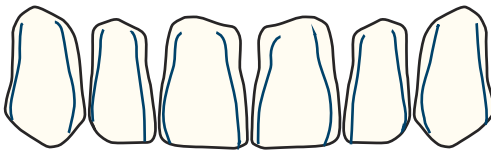
body emphasized
harmonious, neutral



BO-mould

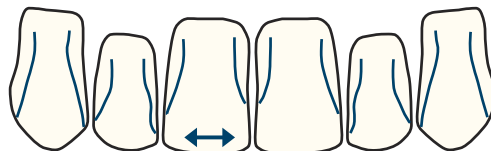


BI-mould

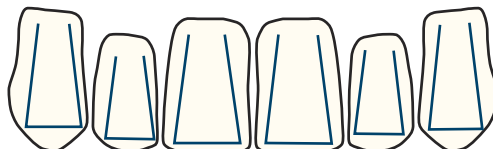


I-mould

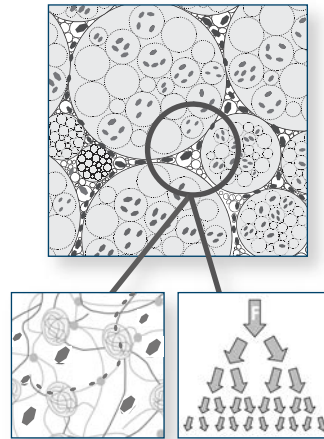
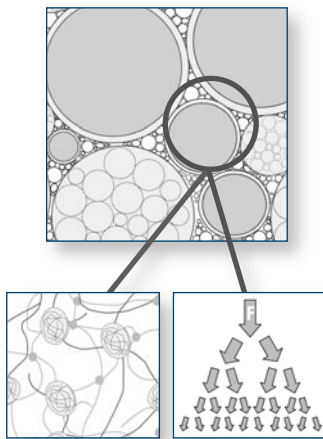
incisal emphasized
grace, elegance, feminine



IT-mould



THE OPTIMUM DENTAL MATERIAL FOR EVERY CASE



Proven biocompatibility OMP-N® and HMP-N®

Inorganic fillers

OMP-N® Organic Modified Polymer-Network

HMP-N® Highly Modified Polymer-Network

Cross-linked macromolecule structures in the submicroscopic range occupy the spaces between larger polymer beads in the chemical bond, which also reduces the proportion of monomer used in tooth production.

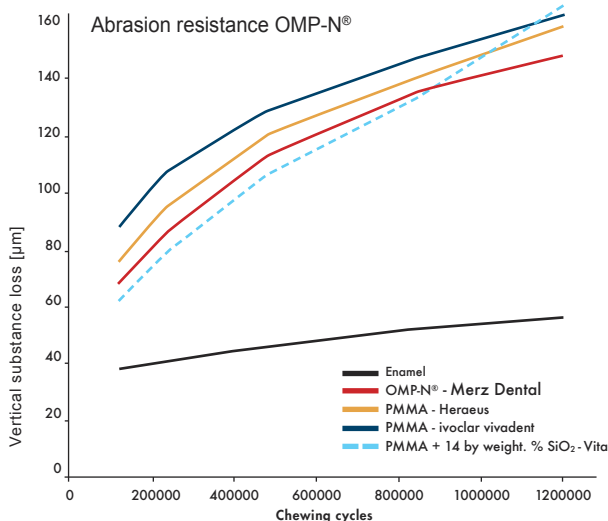
HMP-N® is a dental material developed for implant- and periodontal-supported prosthetics with biomimetic properties learned from nature.

High elasticity, no splintering thanks to the formulation free of fillers and fibres. An integrated shock absorber compensates for the forces acting on the tooth and the denture base area is relieved. OMP-N® presents a very good, plaque-resistant surface compaction after polishing, even with conventional polishers, polishing wheels and polishing agents.

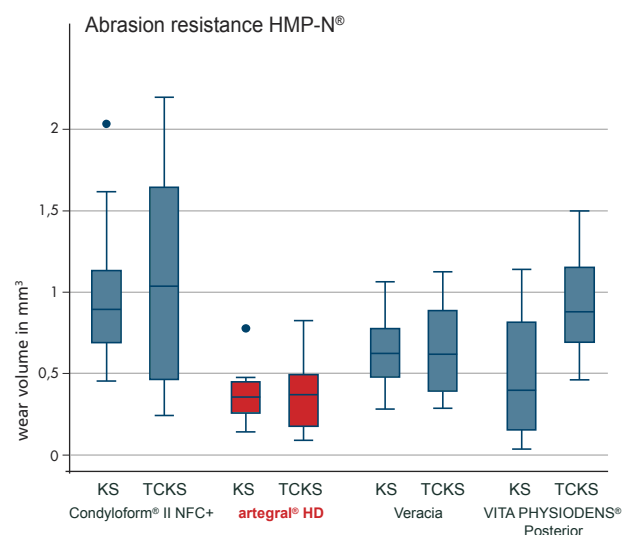
The Highly Modified Polymer Network (HMP-N®) offers a balanced combination of properties thanks to its homogeneous structure with extremely fine crystalline fillers.

- Highly cross-linked, abrasion-resistant, tissue-friendly
- Chemically resistant, color stable
- Strong bond to the denture base acrylic
- Temperature resistant
- Easy to process and polish
- Free from inorganic fillers and fibres
- Elastic and shock absorbing

- Hard-wearing and abrasion resistant, ensuring the vertical support
- Shock absorbing the impact and shear forces on the tooth
- Self-regulating biomimetic adaptation reduces hyper-balance contacts through individual function engraving
- Homogeneous PMMA layer, simple processing when completing the denture
- Plaque-resistant thanks to the uniform PMMA structure



Graph based on Ghazal et al.: Two-body wear of resin and ceramic denture teeth in comparison to human enamel. Dental Materials 4 (2007) 24, p.502-507



Dissertation Felix Schwarzer University of Greifswald 2021

Presentation of the wear results for each group for the chewing simulation method without previous thermal alternating loads (KS) and chewing simulation with previous thermal alternating loads (TCKS); Outliers are shown individually as soon as they are more than 1.5 interquartile ranges away from the Q25 or Q75 percentile.



Proven biocompatibility
OMP-N® and HMP-N®

High End Quality Made in Germany

INTELLIGENT POLYMER WITH INNOVATIVE HIGH DENSITY

The small, only approx. 4 %, structure-forming, inorganic filler content is chemically connected to the surrounding PMMA acrylic matrix by methacrylic silane bridges.

Density and structure compensate for chewing wear and tear as well as shearing stresses that can lead to chipping and fractures.

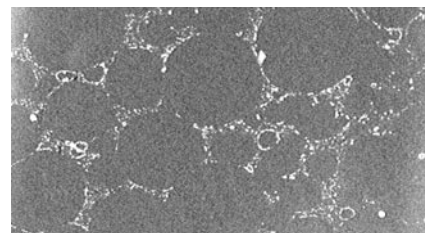
The innovative pairing of the smallest, evenly distributed inorganic fillers and coordinated different complex spherical polymer macromolecules result in an innovatively high density for polymers.

The high proportion of inorganic macro and micro fillers can be clearly seen in conventional dental composite materials. When delamination occurs along the fillers, micro-cracks develop which can cause fractures due to a "ladder effect" when force is applied. The hardest material is not always the best.

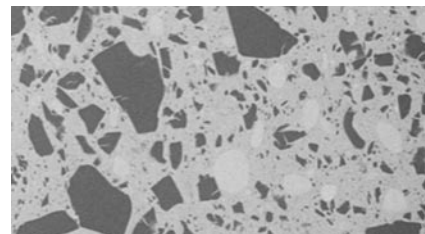
CHEMICAL BOND THROUGH HOMOGENE STRUCTURES

The dental materials OMP-N® and HMP-N® are characterized by a homogeneous and uniform macromolecular structure. Hereby, a stable, resilient chemical bond to the denture base acrylic is created when processing the dentures.

HMP-N®



Nano Filled Composite – composite dental material

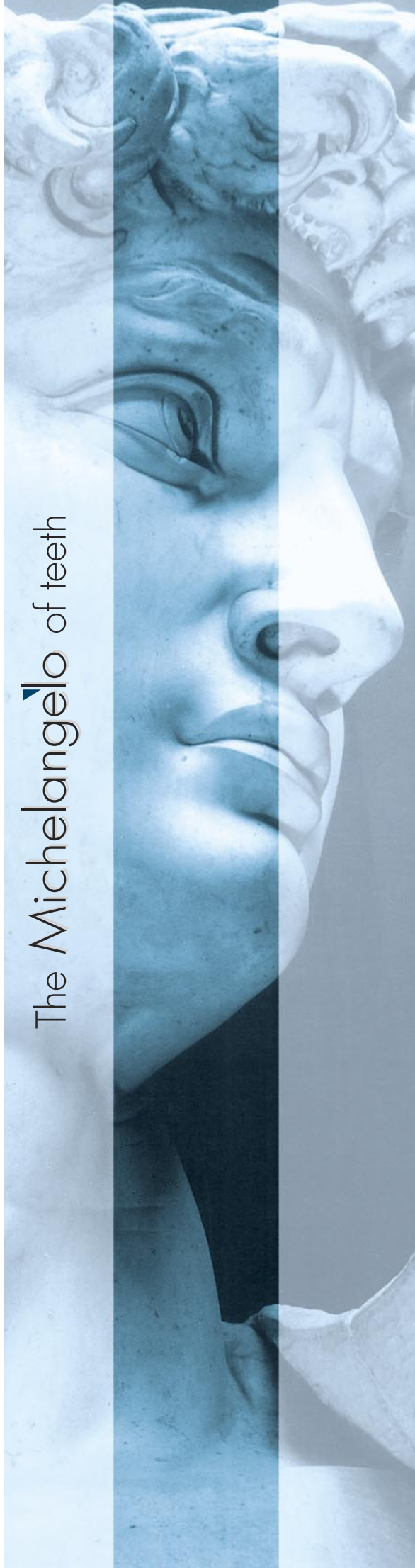


REM 900x Merz Dental Material Development



integral[®]

The Michelangelo of teeth





integral®

THE MICHELANGELO OF TEETH

The world's first fully anatomical anterior tooth

The perfect reproduction of the natural proportions and aesthetics, as represented by the ingenious Michelangelo Buonarroti in his sculptures, was the aim with which this world's first fully anatomical tooth series was developed.

The elaborate layer structure with its characteristic dentine fingers, the opalescent transparent edge and the lifelike light refraction on the incisal edge is consistently orientated on its natural model, the juvenile tooth.

The functional superiority of the integral® is reflected in the applicability of all contemporary occlusion concepts. From full balanced to group guidance to anterior guidance, the fully anatomical occlusal surfaces always allow a clear centric finding with physiological freedom. Even with teeth in close proximity, the naturally designed palatal surfaces on the one hand support the guidance of the anterior teeth, on the other hand they allow comfortable freedom of movement for the patient.

FEATURES and BENEFITS

- Highly cross-linked, filler and fibre-free, abrasion-resistant OMP-N®
- Tissue-friendly, plaque-resistant
- Chemically resistant, color stable
- Very easy to process and polish

MATERIAL

OMP-N®

SET-UP CONCEPT

Tooth-to-tooth set-up

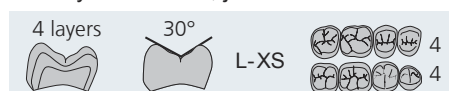
THE ANTERIOR

- Fully anatomical, juvenile



THE POSTERIOR

- Fully anatomical, juvenile



- All common occlusion concepts
- Clear centric finding through tripodization
- Freedom in centric

SHADES

16 V-Classic shades (A1-D4) and 4 Bleach shades (BL1-BL4)



Mould chart
REF 1090049

C-mould



B-mould



I-mould



CL	① 48,9 ② 10,9 ③ 8,5 ④ 42,0	
UCL	① 38,7 ② 9,1 ③ 5,7	
CM	① 46,2 ② 10,5 ③ 8,2 ④ 40,0	
UCM	① 36,7 ② 8,9 ③ 5,4	
CS	① 43,7 ② 9,7 ③ 7,8 ④ 39,0	
UCS	① 34,0 ② 8,6 ③ 5,2	

BL	① 49,5 ② 11,4 ③ 9,3 ④ 42,0	
UBL	① 38,5 ② 8,6 ③ 6,0	
BM	① 46,7 ② 11,0 ③ 8,8 ④ 40,0	
UBM	① 36,5 ② 8,5 ③ 5,6	
BS	① 43,8 ② 10,4 ③ 8,5 ④ 38,0	
UBS	① 34,8 ② 8,5 ③ 5,4	

IL	① 47,2 ② 11,5 ③ 8,5 ④ 41,0	
UIL	① 37,3 ② 9,3 ③ 5,4	
IM	① 44,7 ② 10,8 ③ 8,2 ④ 39,0	
UIM	① 34,6 ② 8,8 ③ 4,9	
IS	① 42,0 ② 10,7 ③ 7,7 ④ 37,0	
UIS	① 33,4 ② 8,7 ③ 4,8	

BXS	① 40,8 ② 9,2 ③ 7,5 ④ 35,0	
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UBXS	① 33,7 ② 8,5 ③ 5,1	
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Special size

UBLL	① 39,6 ② 12,9 ③ 6,0	
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L	34,0	
M	31,6	
S	30,4	

L	36,7	
----------	------	--

S	31,8	
----------	------	--

①	②	③	④	30°	L 26	M 26	S 26	XS 26
					←11,6→	←11,3→	←10,7→	←9,1→
					←11,8→	←9,9→	←8,9→	←8,3→
					36	36	36	36

TOOTH COMBINATION CHART



CL CM CS	UCL UCM UCS	L (M) M (S) S (XS)
BL BM BS BXS	UBL (UBLL) UBM UBS UBXS	L (M) M (S) S (XS) XS (S)
IL IM IS	UIL UIM UIS	L (M) M (S) S (XS)



integral®

artegral[®] Life





artegral® life / artegral® life HD

THE NEXT HIGH LEVEL GENERATION

Anatomical premium class with aesthetic demands at the highest level

Together with a successful surface texture, a natural opalescence and fluorescence, the novel, highly aesthetic and multi-complex layer concept creates the successful image of naturally looking anterior teeth, even in different light conditions.

Incisal translucencies and subtle mamelons increase the depth of the anterior. In the posteriors, the additional reinforced circumferential enamel provides a 3-D effect with an occlusal depth effect and also serves as a grinding reserve for lasting aesthetics.

The incisal translucency of the anteriors is an expression of juvenile vital teeth, which can be quickly and easily adapted to age by individual characterization. A special flanged design (layering) creates an excellent adaptation to the surrounding shades.

FEATURES and BENEFITS

- Unique, highly aesthetic multi-layer structure
- Harmonious shade gradient for a brilliant natural opalescence and fluorescence in different light conditions

SHADES

16 V-Classic shades (A1-D4) and
4 Bleach shades (BL1 - BL4)



artegral® life Shade Guide (A-D + Bleach)
REF 1030253

MATERIAL

OMP-N®

A choice of two types of material for the posteriors:
artegral® life made of **OMP-N®**
artegral® life HD made of **HMP-N®**

SET-UP CONCEPT

Tooth-to-tooth set-up

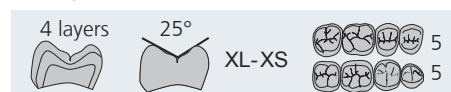
THE ANTERIOR

- Fully anatomical



THE POSTERIOR

- Fully anatomical, functional



- Cusp inclination decreasing distally
- All common occlusion concepts
- Easy handling with self-centring
- Integrated sagittal and transverse compensation curve
- Sagittal set-up aid



Folder REF 1092329

Formenkarte
REF 1092233

C-mould



B-mould



BO-mould



CL

- ① 49,2
- ② 12,0
- ③ 8,8
- ④ 40,0
- ⑤ 35,0

CM

- ① 46,4
- ② 11,0
- ③ 8,3
- ④ 39,0
- ⑤ 34,5

CS

- ① 43,3
- ② 10,3
- ③ 7,7
- ④ 36,0
- ⑤ 32,5

UCL

- ① 38,7
- ② 11,7
- ③ 5,9

UCM

- ① 37,0
- ② 11,0
- ③ 5,7

UCS

- ① 35,0
- ② 10,6
- ③ 5,3

BXL

- ① 53,6
- ② 13,0
- ③ 10,0
- ④ 45,5
- ⑤ 38,1

BL

- ① 49,9
- ② 11,6
- ③ 9,3
- ④ 41,5
- ⑤ 36,0

BM

- ① 47,2
- ② 10,8
- ③ 8,8
- ④ 39,5
- ⑤ 35,0

BS

- ① 43,6
- ② 10,2
- ③ 8,1
- ④ 36,0
- ⑤ 32,5

UBL

- ① 39,6
- ② 10,1
- ③ 5,8

UBM

- ① 38,2
- ② 9,8
- ③ 5,6

UBS

- ① 35,3
- ② 8,7
- ③ 5,2

BOL

- ① 49,4
- ② 12,0
- ③ 8,9
- ④ 40,0
- ⑤ 35,0

BOM

- ① 46,8
- ② 11,6
- ③ 8,4
- ④ 38,0
- ⑤ 34,0

BOS

- ① 43,9
- ② 10,8
- ③ 7,9
- ④ 36,0
- ⑤ 32,5

UBXL

- ① 43,6
- ② 11,0
- ③ 6,5

XL

L

M

XL 26
←12,4→

L 26
←10,0→

M 26
←9,5→

S 26
←8,9→

XS 26
←8,9→

25°

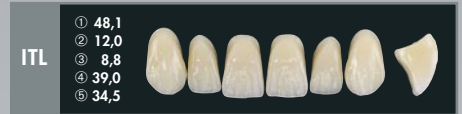
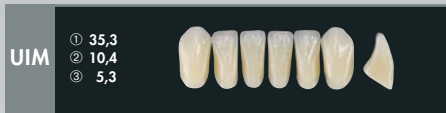
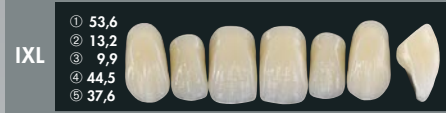
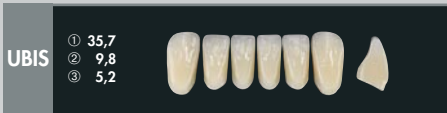
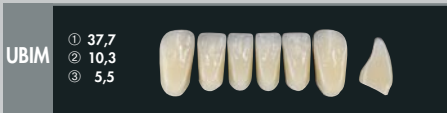
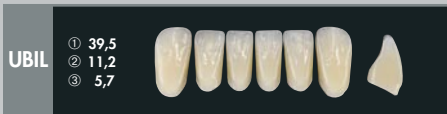
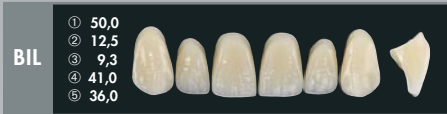
BI-mould



I-mould



IT-mould



TOOTH COMBINATION CHART



C L C M C S	UC L UC M UC S	L/XL M S/XS
B XL B L B M B S	UB XL UB L UB M UB S	XL L/XL M S/XS
BO L BO M BO S	UBI L UBI M UBI S	L/XL M S/XS
BI L BI M BI S	UBI L UBI M UBI S	L/XL M S
I XL I L I M I S	UB XL UI L UI M UI S	XL L M S/XS
IT L IT M IT S	UI L UI M UI S	L M S/XS

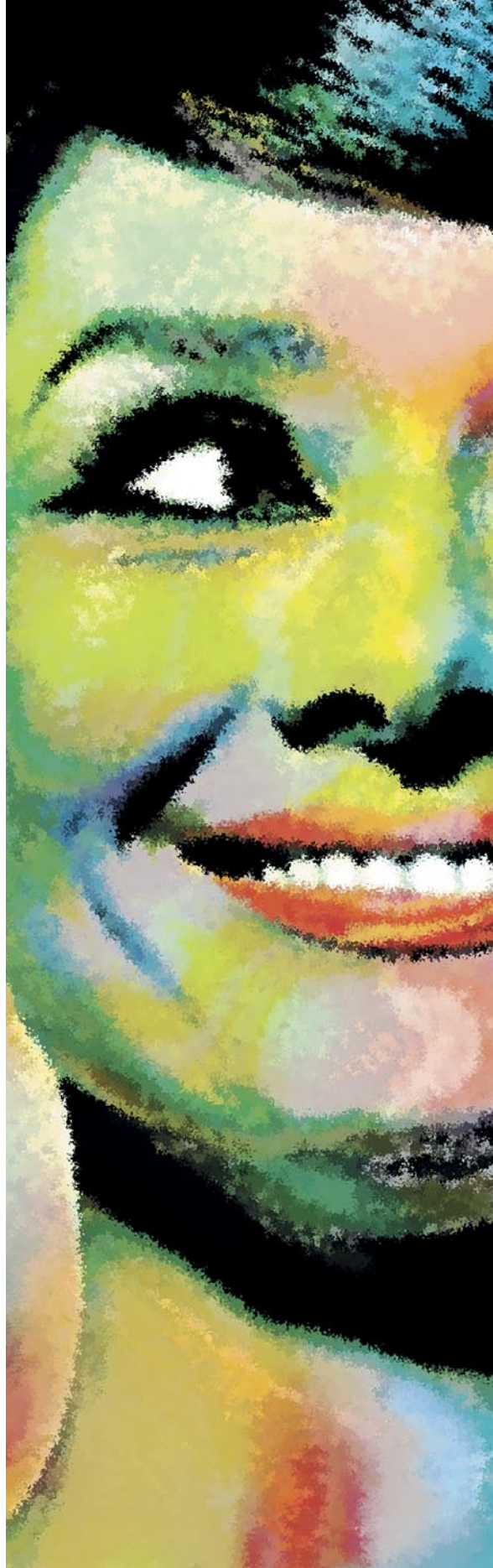
artebral[®] Life



Polystar®

EDITION

Selection



The Modern Art Of Teeth



Polystar® Selection EDITION Polystar® Selection EDITION HD

Polystar® Selection EDITION 2

TOOTH-TO-TOOTH SET-UP

MATERIAL

OMP-N®

A choice of two types of material for the posteriors:

Polystar® Selection EDITION made of **OMP-N®**

Polystar® Selection EDITION HD made of **HMP-N®**

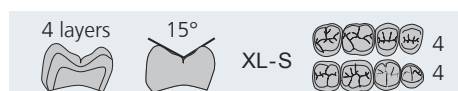
THE ANTERIOR

- Semi-anatomical



THE POSTERIOR

- Semi-anatomical



SET-UP CONCEPT

Tooth-to-tooth set-up



- Especially for fully balanced occlusion
- Fast, simple, effective
- Sagittal set-up aid

SHADES

16 V-Classic shades (A1-D4) and

4 Bleach shades (BL1 - BL4)



Polystar® Selection EDITION Shade Guide (A-D + Bleach)
REF 1030264

4-LAYER POSTERIOR

FOR THE CLASSIC AND SYSTEM-ORIENTED TOOTH-TO-TWO-TEETH SET-UP

MATERIAL

OMP-N®

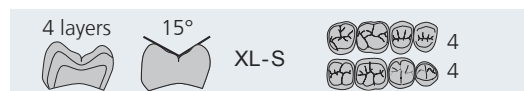
SET-UP CONCEPT

For the classic and system-oriented tooth-to-two-teeth set-up, we recommend the Polystar® Selection EDITION 2, which is transversally narrower and thus allows more tongue space.

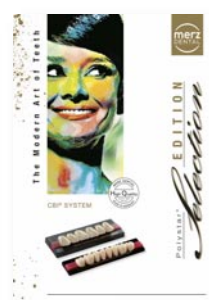


THE POSTERIOR

- Semi-anatomical



- Safe centric
- Harmonic balancing for the classical compensation curve
- Narrow posterior tooth
- Flat cusps (15°), convex occlusal contacts
- Identical left and right side by CAD/CAM reflection
- Anatomical deep fissures for high chewing performance with low chewing force
- Reduced basal contour



Mould chart
REF 1090779

C-mould



B-mould



BI-mould



CI2
51,3
12,5
9,1
43,0

CM2
47,3
10,0
8,6
39,0

CM4
45,1
10,2
8,3
37,0

CM6
46,8
9,5
8,6
38,0

CS2
41,7
8,8
7,5
35,0

BI2
48,2
11,7
9,1
40,0

BM2
47,6
11,1
9,0
39,0

BM4
45,7
10,8
8,6
37,0

BM6
43,3
10,6
8,0
35,0

BS2
39,8
9,2
7,5
32,0

BIL1
53,0
13,1
9,7
46,5

BIL2
46,2
11,2
8,7
39,0

BIM2
46,4
10,2
8,1
38,0

BIM4
45,6
10,3
8,3
38,0

BIM6
44,4
10,0
8,2
37,0

BIS2
42,2
9,8
7,7
35,0

US4
33,6
8,7
5,0

UM8
35,6
9,0
5,3

US2
35,0
9,2
5,0

UM6
35,1
9,3
5,3

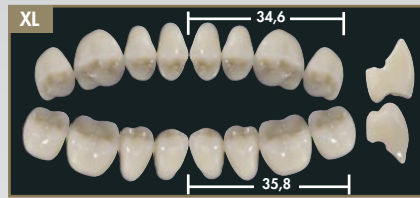
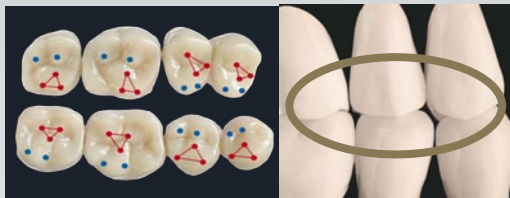
UM10
35,8
8,3
5,6

UM4
37,6
9,8
5,6

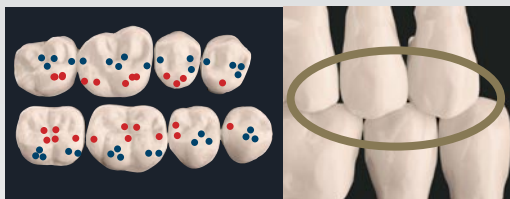
UM2
35,5
9,3
5,2

UL4
38,0
10,5
5,3

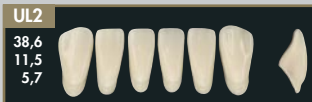
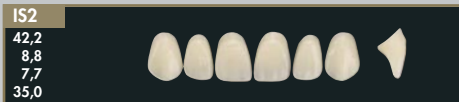
Polystar® Selection EDITION



Polystar® Selection EDITION 2



	Polystar® Selection EDITION				Polystar® Selection EDITION 2			
	XL 26	L 26	M 26	S 26	XL 26	L 26	M 26	S 26
①	←11,0→	←10,3→	←9,8→	←9,2→	←9,7→	←9,3→	←8,7→	←8,2→
②	←10,3→	←9,6→	←9,0→	←8,6→	←9,3→	←8,9→	←8,3→	←7,8→
③	36	36	36	36	36	36	36	36
④								



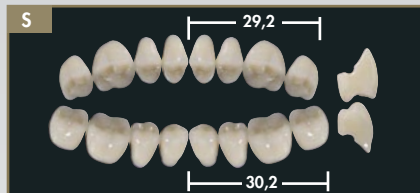
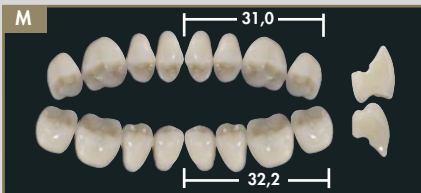
TOOTH COMBINATION CHART

Polystar® Selection
EDITION

Polystar® Selection
EDITION 2

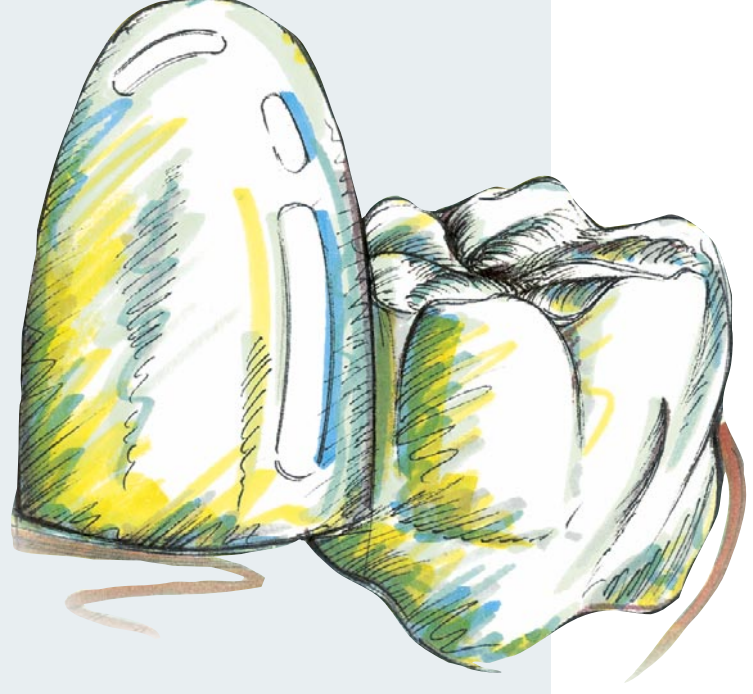


CL 2	UL 2 / UL 4	XL / L	XL / L
CM 2	UM 2 / UM 4 / UM 8 / UM 10	L / M	L / M
CM 4	UM 4 / UM 2	M	M
CM 6	UM 6 / US 2	M / S	M / S
CS 2	US 2 / US 4	S	S
BL 2	UL 2 / UL 4 / UM 4	XL / L	XL / L
BM 2	UM 2 / UM 4 / UM 8 / UM 10	L / M	L / M
BM 4	UM 4 / UM 2	M	M
BM 6	UM 6 / US 2	M / S	M / S
BS 2	US 2 / US 4	S	S
BIL 1	UL 2	XL	XL
BIL 2	UL 2 / UL 4	L	L
BIM 2	UM 2 / UM 4 / UM 8 / UM 10	L / M	L / M
BIM 4	UM 4 / UM 2	M	M
BIM 6	UM 6 / US 2	M / S	M / S
BIS 2	US 2 / US 4	S	S
IL 2	UL 2 / UL 4	L	L
IM 2	UM 2 / UM 4 / UM 8 / UM 10	L / M	L / M
IM 4	UM 4 / UM 2	M	M
IM 6	UM 6 / US 2	M / S	M / S
IS 2	US 2 / US 4	S	S



Polystar® *Selection* EDITION

Polystar[®] HK





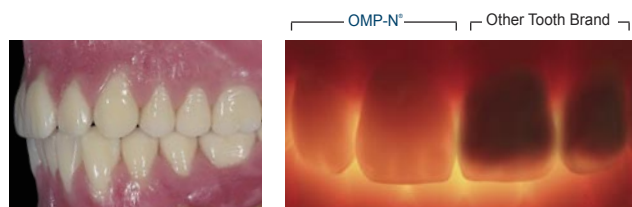
Polystar® HK

A CLASSIC AMONGST DENTURE TEETH

The Polystar® HK is the classic concept tooth with a proven occlusal anatomy. It is particularly suitable for gerontoprosthetics. A classic, which was the world's first acrylic tooth made from OMP-N®. The traditional concept of this all-rounder is the high aesthetic and functional quality for an uncomplicated solution in the wide range of prosthetics. Due to its excellent abrasion resistance, color stability and biocompatibility, the Polystar® HK meets the requirements of demanding users.

FEATURES and BENEFITS

- Three-layer anterior with effects
- Quick and easy tooth set-up
- Simple occlusal anatomy reduces interference during laterotrusion movements
- Tissue friendly
- Color stable
- Easy to process
- Excellent to polish



OMP-N® - Natural light refraction



Polystar® HK Shade Guide (A-D)
REF 1090326

MATERIAL

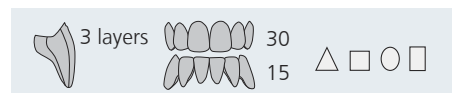
OMP-N®

SET-UP CONCEPT

Tooth-to-two-teeth set-up

THE ANTERIOR

- Semi-anatomical



THE POSTERIOR

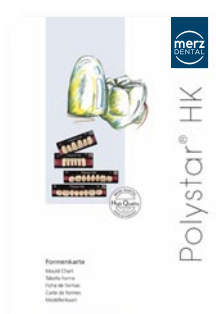
- Semi-anatomical



- Fully balanced occlusion

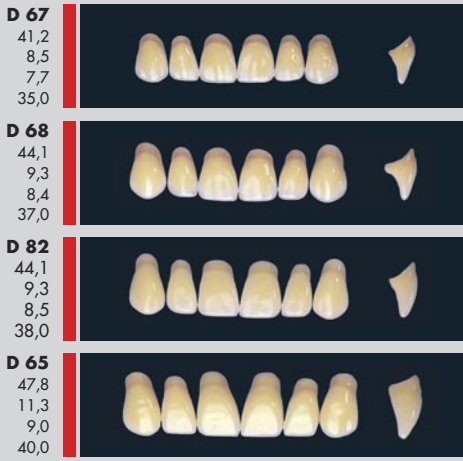
SHADES

16 V-Classic shades (A1-D4)

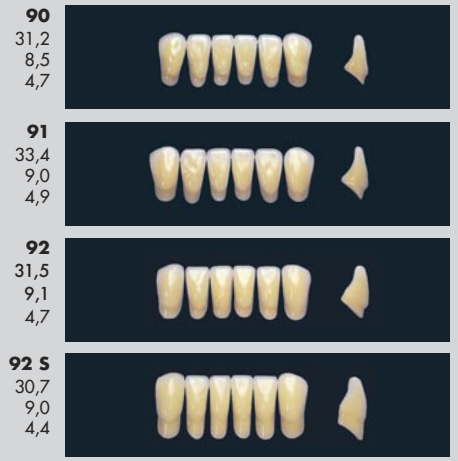


Mould chart
REF 1090159

▲ - mould



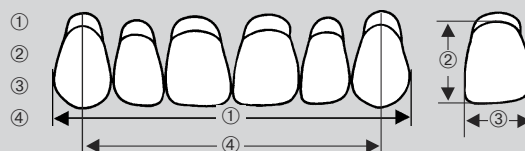
● - mould



■ - mould



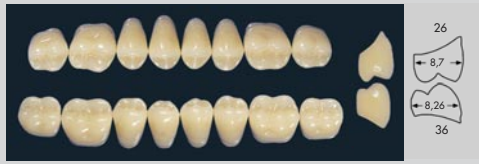
■ - mould



TOOTH COMBINATION CHART



2 ① 33,1 / ② 34,7



3 ① 32,5 / ② 34,4



35 ① 32,5 / ② 34,4



4 ① 30,0 / ② 32,7



6 ① 29,4 / ② 30,9



30 ① 31,8 / ② 33,9



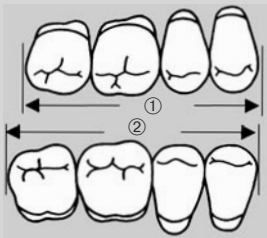
40 ① 30,5 / ② 33,2



50 ① 30,2 / ② 32,2



60 ① 29,9 / ② 31,4



	ANTERIOURS		POSTERIOURS
	OK ¹	UK ²	
▲	D 67	90/92	6/60
▲	D 68	93/94	4/40/50
▲	D 82	94/100	4/40/50
▲	D 65	96/98/101	2/3S/30
■	R 86	90/92/94	4/40/50
■	R 75	91	6/50/60
■	R 69	91	4/40/50
■	R 47	94/95	3/3S/30
■	R 87	99/100	3/3S/4/30/40
■	R 51	95/100	4/40/50
■	R 88	99/100	3/3S/4/30/40
■	R 76	99/100	4/40/50
■	R 49	96/97/102	2/3/3S/30
■	R 60	98/101	2/3S/30
■	R 55	98/101	2/3/3S/30
■	R 89	98	2
■	R 66	98	2
●	O 85	90/92/94	6/50/60
●	O 52	98	2/3/3S/4/30
●	O 48	96/97/102	2/3/3S/30
■	Q 64	93	6/60
■	Q 77	93/94	3/4/40/50
■	Q 45	93/100	4/40/50
■	Q 84	93/94	4/40/50
■	Q 46	93/100	4/40/50
■	Q 83	95/100	3/4/40/50
■	Q 62	97/102	3/4/40/50
■	Q 58	102	3/4/40/50
■	Q 63	98/101	3/3S/4/30/40
■	Q 78	95/102	3/3S/4/30/40

¹OK = upper ²UK = lower

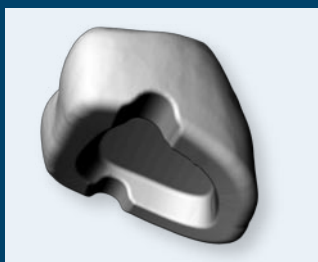
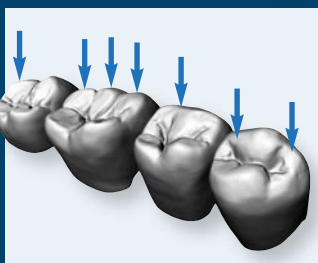
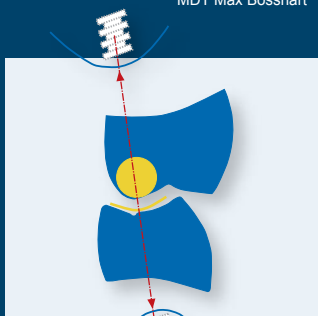
- ▲ D = triangular
- R = rectangular
- O = oval
- Q = square

Polystar[®] HK

DeltaForm[®]



MDT Max Boschart





DeltaForm® / DeltaForm® HD

LINGUALIZED OCCLUSION

With its occlusal surfaces specially designed for lingualization and its characteristic abrasion facets as well as low cusp inclination, the DeltaForm® is the contemporary, semi-anatomical alternative to ABC-contact support. Developed for those who like semi-anatomical posteriors with lines of force centered on the alveolar ridge, avoidance of horizontal impulses and a self-finding "gentler" centric for their prosthetics.

The mortar-pestle ratios of the occlusal surfaces (20° - 15°) allow for a secure balance, supported by the 3-layer wear facets. DeltaForm® also has the anatomy necessary for combined dentures. The properties of the DeltaForm® posteriors are the reinterpretation of the latest acrylic technologies. Simple, extremely quick set-up, minimised grinding and high chewing stability increase the economic potential.

FEATURES and BENEFITS

- Spacious, self-finding centric
- Mortar and pestle concept with tooth-to-tooth relationship
- Joint-adequate low cusp inclination
- Patented large-area mortar (recess) for self-regulating occlusion
- Reduction of the risk of hyperbalance due to abrasion facets during balancing
- Set-up with and without A-contact without loss of stability or statics
- Thanks to the special occlusion mould, the lingualized occlusion concept directs the chewing force towards palatal onto the jaw ridge
- Basal groove, Preventive Shift Groove (PSG®) prevents twisting and tilting during wax-up
- The reduced contour of the tooth base makes it easier to adapt to the alveolar ridge contour
- Very easy to process and polish

MATERIAL

OMP-N®

A choice of two types of material for the posteriors:

DeltaForm® made of **OMP-N®**

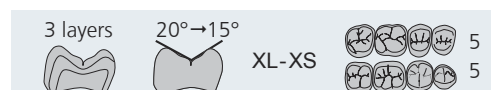
DeltaForm® HD made of **HMP-N®**

SET-UP CONCEPT

Lingualized occlusion

THE POSTERIOR

- Semi-anatomical



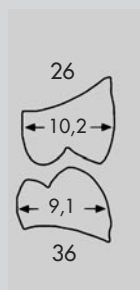
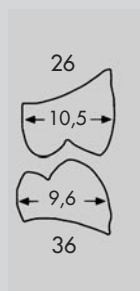
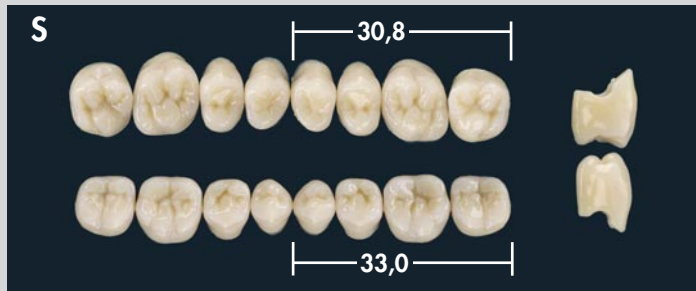
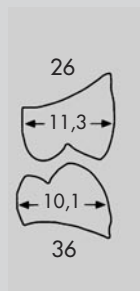
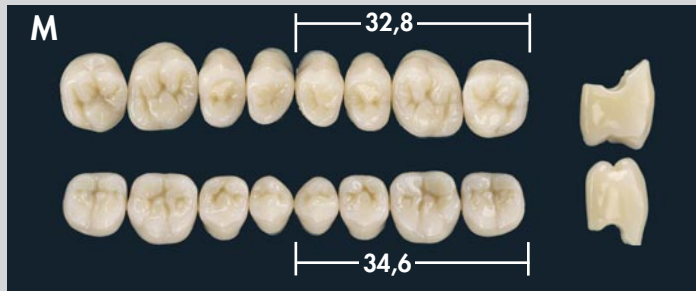
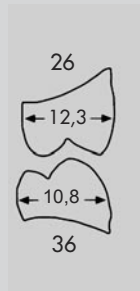
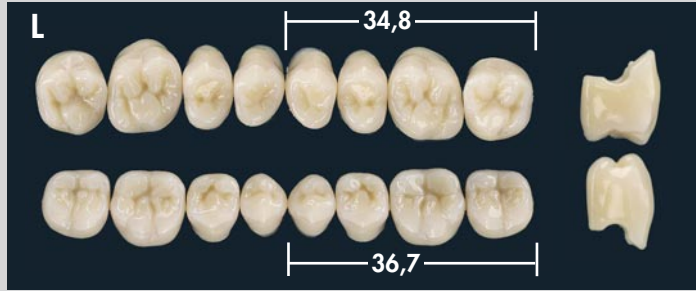
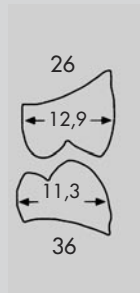
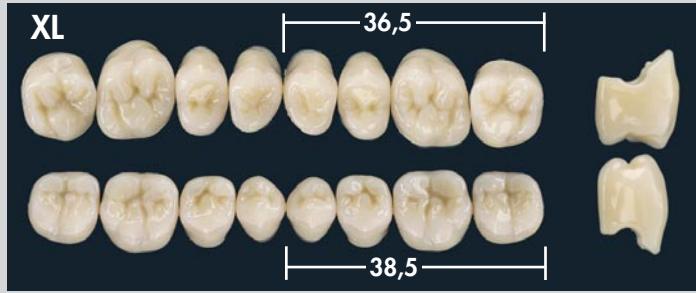
- Cusp inclination decreasing distally
- Mortar-pestle concept with tooth-to-tooth relationship
- Self-finding centric
- Autonomous chewing stability through mortar-pestle principle and abrasion facets

SHADES




16 V-Classic shades (A1-D4) and
4 Bleach shades (BL1 - BL4)



Mould chart
REF 1090170



TOOTH COMBINATION CHART

					
Polystar® HK		Polystar® HK		DeltaForm®	
● - mould	O48	102/101/96		XL / L	
▲ - mould	D82 D68	94/100 100/94/93/96		M / S/XS M / S	
■ - mould	R66 R49 R76 R88 R47 R86	91/100/93 100/93/99 99/102/101 99/102/101 101/96 96		XS / S/M S / M M / L M / L M / L XL	
■ - mould	Q75 Q62 Q58 Q46 Q84 Q45	91/100/94/93 94/99 99/102 102/101 93/99/102 102/101		XS / S XS / S S / M M / L M / L M / L	

inTEGRAL®	artegral® Life	inTEGRAL®	artegral® Life	DeltaForm®
CL CM CS	CL CM CS	UCL UCM UCS	UCL UCM UCS	XL/L M S/XS
BL BM BS	BXL BL BM BS BOL BOM BOS BIL BIM BIS	UBLL UBL UBM UBS	UBXL UBL UBM UBS UBIL UBIM UBIS UBIL UBIM UBIS	XL XL/L M S/XS XL/L M S/XS XL/L M S
IL IM IS	IXL IL IM IS ITL ITM ITS	UIL UIM UIS	UBXL UIL UIM UIS UIL UIM UIS	XL L M S/XS L M S/XS

Polystar® EDITION Selection	Polystar® EDITION Selection	DeltaForm®
CL2 CM2 CM4 CM6 CS2	UL2/UL4 UM2/UM4 UM2/UM4 UM6*/US2 US2	XL/L L/M M/S M/S S/XS
BL1 BL2 BM2 BM4 BM6* BS2 BIL2* BIM2 BIM4 BIM6* BIS2	UL2 UL2/UL4/UM4* UM2/UM4 UM2/UM4 UM6/US2 US2 UL2/UL4/UM4* UM2/UM4 UM2/UM4 UM6/US2/UM2* US2	XL/L XL/L L/M M/S S/XS XS M/S M/S M/S S/XS XS
IL2 IM2 IM4 IM6 IS2	UL2/UL2/UL4 UM2/UM4 UM2/UM4 UM6/US2 US2	L/M L/M M/S M/S S/XS

DeltaForm®

*BDLoad (Anterior: Polystar® Selection EDITION)

artVeneer[®] Life





artVeneer® life

CREATIVELY, AESTHETICALLY, EFFICIENTLY COMBINABLE WITH THE artegral® life TOOTH SERIES

artVeneer® life unique all-rounders and in combination with brilliant shade and light effects the complex set of rules of lifelike morphology and surface texture is newly defined.

The full-bodied tooth moulds of the artegral® life stay present in the artVeneer® life and, thanks to their three-dimensional, anatomical structure with multi-complex layering and the harmonious shade gradient, provide the perfect veneer.

artVeneer® life enable space-saving and efficient work. The nature-identical moulds lend acrylic veneers a natural look and integrate them into the harmonious overall picture of combined prosthetic work. The incisal back protection of the anterior veneers supports the incisal guidance, offers a contouring and modelling aid as well as an aesthetic reserve for metal edges.

FEATURES and BENEFITS

- Fast, efficient veneering
- CAD/CAM-based Active Shade Technology (AST)
- Abrasion resistant
- High flexural strength
- Shock-absorbing and permanently color stable
- True-to-life fluorescence and shade effect
- Tissue-friendly, plaque-resistant
- Very easy to process and polish

MATERIAL

OMP-N®

SET-UP CONCEPT

Tooth-to-tooth set-up

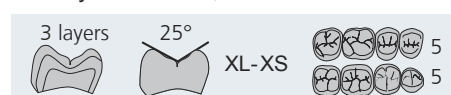
ANTERIOR VENEER

- Fully anatomical



POSTERIOR VENEER

- Fully anatomical, functional



- All common occlusion concepts
- Combinable 1:1 with artegral life®

SHADES

16 V-Classic shades (A1-D4) and 4 Bleach shades (BL1 - BL4)



Folder REF 1092419

Mould chart
REF 1092429

C-mould



B-mould



BO-mould



CL

- ⑤ 9,5
- ⑥ 11,3
- ① 49,2 ⑦ 7,4
- ② 12,0 ⑧ 12,3
- ③ 12,7 ⑨ 13,6
- ④ 8,8 ⑩ 8,6

BXL

- ⑤ 11,2
- ⑥ 13,0
- ① 53,6 ⑦ 7,7
- ② 13,0 ⑧ 12,1
- ③ 14,3 ⑨ 15,3
- ④ 10,0 ⑩ 9,3

BOL

- ⑤ 10,9
- ⑥ 12,3
- ① 49,4 ⑦ 7,2
- ② 12,0 ⑧ 13,7
- ③ 12,2 ⑨ 14,7
- ④ 8,9 ⑩ 8,6

CM

- ⑤ 9,7
- ⑥ 10,6
- ① 46,4 ⑦ 7,0
- ② 11,0 ⑧ 11,2
- ③ 12,0 ⑨ 12,7
- ④ 8,3 ⑩ 8,1

BM

- ⑤ 10,5
- ⑥ 11,3
- ① 47,2 ⑦ 6,7
- ② 10,8 ⑧ 11,6
- ③ 12,3 ⑨ 12,9
- ④ 8,8 ⑩ 8,2

BOM

- ⑤ 10,7
- ⑥ 11,8
- ① 46,8 ⑦ 6,9
- ② 11,6 ⑧ 12,7
- ③ 12,5 ⑨ 14,0
- ④ 8,4 ⑩ 8,2

CS

- ⑤ 9,3
- ⑥ 9,8
- ① 43,3 ⑦ 6,4
- ② 10,3 ⑧ 10,9
- ③ 11,4 ⑨ 11,6
- ④ 7,7 ⑩ 7,3

BS

- ⑤ 9,7
- ⑥ 10,7
- ① 43,6 ⑦ 6,3
- ② 10,2 ⑧ 10,7
- ③ 11,5 ⑨ 12,2
- ④ 8,1 ⑩ 7,6

BOS

- ⑤ 9,7
- ⑥ 10,9
- ① 43,9 ⑦ 6,5
- ② 10,8 ⑧ 11,7
- ③ 11,7 ⑨ 13,1
- ④ 7,9 ⑩ 7,6

UCL

- ④ 11,3
- ⑤ 12,2
- ① 38,7 ⑦ 6,1
- ② 11,7 ⑧ 12,5
- ③ 12,6 ⑨ 13,6
- ④ 5,9 ⑩ 7,3

UBL

- ④ 10,2
- ⑤ 11,9
- ① 39,6 ⑦ 6,3
- ② 10,1 ⑧ 11,6
- ③ 11,8 ⑨ 13,0
- ④ 5,8 ⑩ 7,2

UBXL

- ④ 11,8
- ⑤ 13,3
- ① 43,6 ⑦ 7,2
- ② 11,0 ⑧ 13,2
- ③ 13,2 ⑨ 14,6
- ④ 6,5 ⑩ 8,0

UCM

- ④ 11,1
- ⑤ 11,8
- ① 37,0 ⑦ 5,8
- ② 11,0 ⑧ 11,7
- ③ 11,7 ⑨ 12,9
- ④ 5,7 ⑩ 7,0

UBM

- ④ 10,4
- ⑤ 11,4
- ① 38,2 ⑦ 6,1
- ② 9,8 ⑧ 11,5
- ③ 11,3 ⑨ 12,5
- ④ 5,6 ⑩ 7,0

UCS

- ④ 10,2
- ⑤ 11,0
- ① 35,0 ⑦ 5,4
- ② 10,6 ⑧ 10,8
- ③ 11,3 ⑨ 12,2
- ④ 5,3 ⑩ 6,6

UBS

- ④ 9,8
- ⑤ 10,6
- ① 35,3 ⑦ 5,7
- ② 8,7 ⑧ 10,7
- ③ 10,5 ⑨ 11,7
- ④ 5,2 ⑩ 6,5

XL

L

M

①	②	Zahn
14/24 34/44	15/25 35/45	16/26 36/46
17/27	14/24 34/44	15/25 35/45
16/26 36/46	17/27	14/24 34/44
15/25 35/45	16/26 36/46	17/27
8,1	7,4	11,3
10,0	12,7	12,5
11,1	9,7	11,1
8,1	7,7	11,5
11,3	13,3	12,5
11,3	10,2	11,3
10,2	11,0	5,4
10,8	10,6	10,8
12,2	11,3	12,2
6,6	5,3	6,6

①	②	Zahn
14/24 34/44	15/25 35/45	16/26 36/46
17/27	14/24 34/44	15/25 35/45
16/26 36/46	17/27	14/24 34/44
15/25 35/45	16/26 36/46	17/27
7,6	7,0	10,8
9,6	12,0	11,7
9,2	10,6	9,2
7,7	7,3	11,0
10,5	12,6	11,9
9,2	10,8	9,2

①	②	Zahn
14/24 34/44	15/25 35/45	16/26 36/46
17/27	14/24 34/44	15/25 35/45
16/26 36/46	17/27	14/24 34/44
15/25 35/45	16/26 36/46	17/27
6,6	5,6	10,1
9,0	11,2	11,0
8,6	10,0	8,6
7,2	7,0	10,3
10,0	11,8	11,2
8,8	10,1	8,8

BI-mould



I-mould



IT-mould



BIL ⑤ 10,5
⑥ 11,5
① 50,0 ⑦ 8,2
② 12,5 ⑧ 13,0
③ 12,5 ⑨ 14,0
④ 9,3 ⑩ 8,6

BIM ⑤ 9,8
⑥ 10,8
① 47,4 ⑦ 6,7
② 12,0 ⑧ 11,8
③ 12,8 ⑨ 13,3
④ 8,8 ⑩ 8,2

BIS ⑤ 9,1
⑥ 10,1
① 44,3 ⑦ 6,3
② 10,8 ⑧ 11,1
③ 11,8 ⑨ 12,6
④ 8,3 ⑩ 7,6

IXL ⑤ 11,5
⑥ 13,0
① 53,6 ⑦ 7,5
② 13,2 ⑧ 14,2
③ 15,3 ⑨ 15,6
④ 9,9 ⑩ 8,9

IL ⑤ 10,6
⑥ 11,6
① 47,0 ⑦ 7,8
② 12,5 ⑧ 12,5
③ 13,5 ⑨ 14,0
④ 8,8 ⑩ 8,5

IM ⑤ 9,7
⑥ 10,9
① 44,4 ⑦ 6,3
② 11,2 ⑧ 12,1
③ 12,7 ⑨ 13,2
④ 8,3 ⑩ 8,0

IS ⑤ 9,0
⑥ 11,5
① 41,8 ⑦ 5,9
② 10,8 ⑧ 10,9
③ 12,2 ⑨ 12,6
④ 7,8 ⑩ 7,0

ITL ⑤ 10,8
⑥ 11,7
① 48,1 ⑦ 6,9
② 12,0 ⑧ 12,6
③ 12,9 ⑨ 13,8
④ 8,8 ⑩ 8,5

ITM ⑤ 9,9
⑥ 11,1
① 45,0 ⑦ 6,3
② 11,3 ⑧ 11,9
③ 12,1 ⑨ 12,6
④ 8,2 ⑩ 7,9

ITS ⑤ 9,4
⑥ 10,4
① 41,9 ⑦ 6,0
② 10,7 ⑧ 11,0
③ 11,3 ⑨ 12,0
④ 7,7 ⑩ 7,4

UBIL ⑤ 10,9
⑥ 12,5
① 39,5 ⑦ 6,3
② 11,2 ⑧ 12,8
③ 12,5 ⑨ 14,6
④ 5,7 ⑩ 7,5

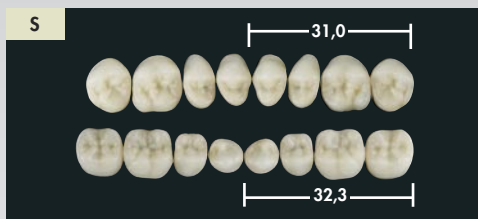
UBIM ⑤ 10,0
⑥ 11,9
① 37,7 ⑦ 5,9
② 10,3 ⑧ 12,2
③ 11,9 ⑨ 13,7
④ 5,5 ⑩ 7,2

UBIS ⑤ 9,8
⑥ 11,4
① 35,7 ⑦ 5,8
② 9,8 ⑧ 11,6
③ 11,3 ⑨ 13,1
④ 5,2 ⑩ 6,8

UIL ⑤ 10,9
⑥ 12,9
① 37,7 ⑦ 5,8
② 11,6 ⑧ 12,3
③ 12,7 ⑨ 13,6
④ 5,7 ⑩ 7,2

UIM ⑤ 10,5
⑥ 12,0
① 35,3 ⑦ 5,4
② 10,4 ⑧ 11,1
③ 11,7 ⑨ 12,6
④ 5,3 ⑩ 6,7

UIS ⑤ 9,6
⑥ 11,3
① 33,4 ⑦ 5,0
② 10,0 ⑧ 9,9
③ 11,0 ⑨ 11,8
④ 5,0 ⑩ 6,2



①		②		
14/24	15/25	16/26	17/27	Zahn
34/44	35/45	36/46	37/47	Tooth
8,1	8,7	9,5	9,4	10,8
7,2	7,4	8,6	8,8	11,2
				10,5
				9,4
				8,1
				9,4
				8,5

①		②		
14/24	15/25	16/26	17/27	Zahn
34/44	35/45	36/46	37/47	Tooth
7,8	8,4	9,2	9,5	10,2
6,7	7,0	8,8	8,7	10,3
				10,0
				9,0
				7,8
				9,9
				8,9
				8,2



artVeneer[®] Life



Tooth cabinets

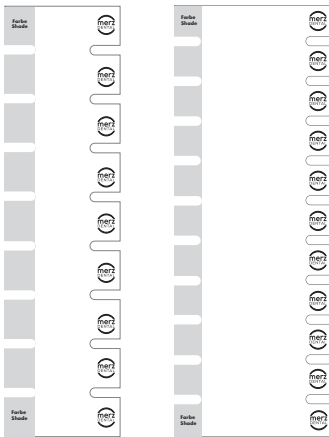
WELL SORTED AND DUST PROTECTED MADE OF WOOD - MADE IN GERMANY

FEATURES and BENEFITS

- The drawers are securely gripped and lowered at an angle when fully extended
- Sets are optimally selected right down to the last row
- The modular construction allows space-saving stackability
- The sloped handles cover the lower drawers, hence the teeth are protected from dust
- Each drawer holds 54 anterior sets or 44 posterior sets

DELIVERY FORM

- 5-drawer design:
(HxWxD 21 x 42 x 32 cm)
REF 1090007
- 10-drawer design:
(HxWxD 38 x 42 x 32 cm)
REF 1090002
- 16-drawer design:
(HxWxD 57 x 42 x 32 cm)
REF 1090003



artegral[®] Life Teeth / Anterior
Teeth / Posterior

Tooth cabinet inserts / labels

WELL LABELLED

DELIVERY FORM

Plain, writable tooth cabinet inserts

- Anterior sets 1 pc. REF 1092435
- Posterior sets 1 pc. REF 1092436

Tooth cabinet self-adhesive labels

1 sheet of 16 pcs.

- integral[®] REF 1090951
- artegral[®] life REF 1090948
- Polystar[®] Selection EDITION REF 1090954
- Polystar[®] Selection EDITION 2 REF 1092407
- Polystar[®] HK REF 1090565
- DeltaForm[®] REF 1090955
- artVeneer[®] life REF 1092245

Tooth trays

MATCHED TO THE TOOTH CABINETS FOR OPTIMAL SORTING OF YOUR SETS

DELIVERY FORM

- Tray for 54 sets of anterior teeth REF 1090968
- Tray for 44 sets of posterior teeth REF 1090969
- Tray for 27 sets of anterior teeth REF 1090974
and 22 sets of posterior teeth



Living mould guides

LIVING MOULD GUIDES WITH ACRYLIC TEETH IN SHADE A3 ARE AVAILABLE IN THE FOLLOWING THREE VERSIONS:

- High-quality presentation case made of aluminium REF 1010300
- Presentation folder with zip REF 1090130
- Plastic tray

integral® REF 1010330
10 upper and 11 lower anterior sets
4 upper and 4 lower posterior sets

artegral® life REF 1010333
20 upper and 13 lower anterior sets
5 upper and 5 lower posterior sets

Polystar® Selection EDITION / Polystar Selection EDITION HD REF 1010337
21 upper and 9 lower anterior sets
4 upper and 4 lower posterior sets
4 upper and 4 lower HD posterior sets

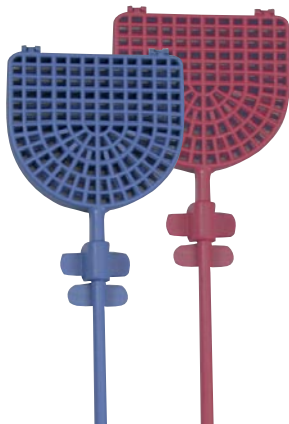
Polystar® Selection EDITION / Polystar Selection EDITION 2 REF 1010336
21 upper and 9 lower anterior sets
4 upper and 4 lower posterior sets
4 upper and 4 lower EDITION 2 posterior sets

DeltaForm® REF 1010343
5 upper and 5 lower posterior sets

DeltaForm® HD REF 1010344
5 upper and 5 lower HD posterior sets

Polystar® HK REF 1010341
30 upper and 15 lower anterior sets
9 upper and 9 lower posterior sets

artVeneer® life REF 1010335
20 upper and 13 lower anterior veneer sets
5 upper and 5 lower posterior veneer sets



Tooth sieve

PRACTICAL AND DURABLE

The practical tooth sieve puts an end to time-consuming "tooth sorting" after boiling off the wax

FEATURES and BENEFITS

- Compartments for a maximum of 14 teeth
- Temperature resistant up to 120 °C
- Secure clip closure

DELIVERY FORM

- Red REF 1030027
- Blue REF 1030028



Polar Light

TOOTH SHADE AND TOOTH CONTOUR LED LIGHT WITH 5500 K DAYLIGHT

DENTAL REQUIREMENTS

- Neutral daylight 5500 K
- Ambient light sources are eliminated
- Reliable, high-contrast color vision, contour and texture recognition
- Avoids tooth shade corrections
- Low glare for patient and user
- Identical light conditions in practice and laboratory
- Eliminates shadowing, eliminates color interference through lips as well as other sources of color in the oral cavity

FEATURES and BENEFITS

- Low acquisition and operating costs
- Battery operation with constant light output
- Small, handy, mobile
- No charger, no additional socket allocation
- Easy handling
- On/off switch can be locked during shade taking
- Immediate full light output
- 30000 hours LED life with constant light output

TECHNICAL SPECIFICATIONS

- L/W/H: 176 x 54 x 22 mm
- Weight 135 g
- 2 x AA mignon 1.5 V
- 6 x LED 5500 K
- Color rendering index Ra > 90

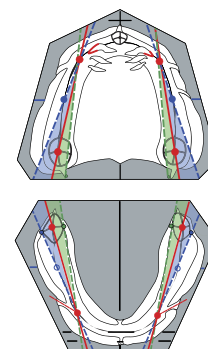
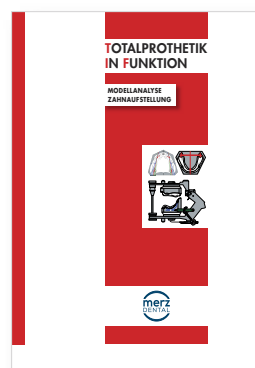
DELIVERY FORM

- REF 1030260



TOTAL PROSTHETICS /IN FUNKTION

acc. to Karl-Heinz Körholz



System set-up

WELL PREPARED

The set-up of full dentures is definitely not among the easier tasks of a dental technician. Due to the edentulous situation, he can only find a few points of orientation, which can be used for the tooth set-up.

Based on the full denture concept developed by Prof. Gerber, Karl-Heinz Körholz developed a didactic approach specifically for training and continuing education. This method is called total prosthetics in function referred to as TiF® for short. It is used in many laboratories for full denture restorations, is integrated into the curriculum in numerous dental technician colleges and master classes and has established itself in the practical and master exams. Full dentures in function allow the implementation of a wide variety of occlusion concepts, from full balanced and lingualized occlusion to canine-premolar guidance.

There is no need for complex devices and instruments or using a specific type of articulator that is suitable for full dentures including set-up aids and spherical caps that are usually quite expensive. The TiF® method is thus not dependent on devices and does not require additional investments.

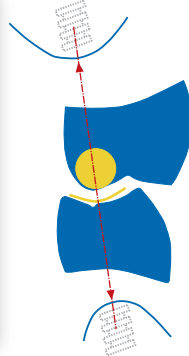
The systematic procedure ensures that the work result can be checked at any time. The set-up of each individual tooth can be determined and checked in all three dimensions by using very simple technical aids such that the technician can achieve and guarantee a consistently high quality standard in the field of full dentures in a short amount of time.

TiF® model analysis tooth set-up

STEP BY STEP INSTRUCTIONS

- ✓ Tools
- ✓ Model analysis
- ✓ Setting up the teeth - integral®, artegral® and artegral® life
- ✓ Control of individual tooth positions
- ✓ Static and dynamic occlusion control
- ✓ Instructions for full balanced occlusion and canine-premolar guidance

REF 1030314



Basis & Master course brochure

Profile compass

SYSTEM SETUP FULL DENTURES ACC. TO DR. GERBER

Lingualized full dentures

Step-by-step instructions for the set-up of full dentures in lingualized occlusion. Described concisely and clearly as a basic and master course by MDT Gerd Lehmann using the tooth set-up with the DeltaForm® posteriors based on the mortar-pestle principle, outlined in over 80 illustrations.

- ✓ Work documents
- ✓ Bite template
- ✓ Model analysis
- ✓ Average anterior tooth set-up
- ✓ Static posterior set-up in lingualized occlusion with the DeltaForm®
- ✓ Check individual tooth positions
- ✓ Master module with step position of posterior teeth

Basic course REF 1092212

Master course REF 1090499

ESSENTIAL FOR THE MODEL ANALYSIS

Essential for the model analysis in order to be able to transfer the course of the alveolar ridge into the area of the posteriors to the outer edge of the edentulous lower model.

The position of the largest masticating unit is determined on the basis of the alveolar ridge; this is usually the first lower molar. This procedure has been known since Gysi and was adopted by GERBER as well as for the model analysis for full dentures in function (TiF®).

- ✓ Full denture system set-up
- ✓ Dimensionally stable and torsion-free
- ✓ Rust-free metal parts
- ✓ Ergonomic design
- ✓ Holder with secure locking for a wide variety of pens, e.g. crayons, fineliners, normal felt-tip pens
- ✓ Supplied in a break-proof plastic case

REF 1030320



TOTAL PROSTHETICS /IN FUNKTION

acc. to Karl-Heinz Körholz



Training Kit Professional

PERFECTLY EQUIPPED

Perfectly equipped for training, courses or exams. The T*i*F® Training Kit supports in-house training courses, in preparation for the college and master exam.

Contains everything that is required for the model analysis and the tooth set-up according to T*i*F® the full dentures in function method. Available in a handy and sturdy case as a PROFESSIONAL set.

DELIVERY FORM

Completely equipped for training, course or exam:

- ✓ Functional models, upper and lower
- ✓ Bite key
- ✓ Angle template (REF 1090390)
- ✓ Quick guide to model analysis (REF 1030314)
- ✓ Checklist T*i*F® set-up
- ✓ Course script T*i*F®
- ✓ Instructions T*i*F® with the artegral®
- ✓ Profile compass
- ✓ Fineliner box (waterproof pens in blue, red, green and black)
- ✓ Pencil
- ✓ Set square
- ✓ artegral® life sets of teeth anteriors in A3, BS, UBS and posteriors in size S
- ✓ PremEco® Line NF Wax, 5 sheets (REF 1030210)

REF 1030313

Angle template

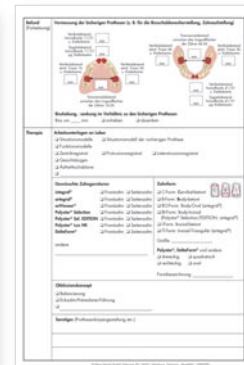
PRACTICAL HELP

Practical help for model analysis and tooth set-up, stable, water-repellent cardboard, pre-punched for easy removal.

DELIVERY FORM

20 or 50 pieces

REF 1090390



Full dentures laboratory checklist

BLOCK OF 100 PAGES

Checklist for documenting quality management from work preparation to final inspection, so that success is not left to chance.

REF 1090100

Full dentures data sheet

BLOCK OF 100 PAGES, COLORED

A communication aid for dentist and laboratory for the management of full dentures. Offers a rational and reliable transmission of patient information essential for the tooth set-up and its positions.

- Patient's previous wearing experience
- Bite position
- Tooth shade
- Anteriors width and length
- Proportions and position of incisors
- Aesthetic position of anteriors
- Measurements of previous dentures
- Indications of bite raise or lowering
- Tooth sets
- Occlusion concept

REF 1090099

artConcept[®] PLUS

VENEER AESTHETICS



artConcept[®] PLUS

AN ADDED PLUS OF VALUE AND RELIABILITY

artConcept[®] PLUS is a newly designed veneering system, which combines many years of experience of the previous tried and tested artConcept[®] with the latest technical standards.

artConcept[®] PLUS

- Contains the multilayered veneers artVeneer[®] life with mould, color and material identical properties, suitable for the tooth series artegral[®] life and the corresponding individualization and supplementary compounds, as well as a color-coordinated composite system.
- Enables a perfect combination of individual and efficient veneering technique.
- Convinces with the PLUS of adhesive properties and color stability of all coordinated system components

artVeneer[®] life veneers and PMMA acrylic teeth can be individualized with artConcept[®] PLUS veneering materials and fixed to all dental framework materials with the aid of the new artConcept[®] PLUS bonding system.

AREAS OF APPLICATION

- Total or partial tooth loss
- Loss of tooth structure

AREAS OF APPLICATION

Replacement of lost hard tooth substance by:

- Tooth-colored attachment or deposit of artVeneer[®] life and acrylic teeth
- Veneers for telescopic, attachment, bar and implant constructions with artVeneer[®] life and artConcept[®] PLUS system
- Bonding acrylic teeth to partial dentures with a back protection plate or pontic
- Customization of acrylic teeth, artVeneer[®] life and CAD/CAM restorations made of M-PM[®] Disc and artBloc[®] Temp
- Fabrication of temporary crowns and bridges
- Repairs

FEATURES and BENEFITS

- High bond strength
- High color stability
- Individual and extendable
- Aesthetic, color stable
- Excellent accuracy of fit
- Easy to polish, high plaque resistance
- Biocompatibility tested





FURTHER COMPONENTS

artDentine PLUS	cold-curing PMMA acrylic in tooth shades
artEnamel PLUS	cold-curing PMMA acrylic in enamel and transparent shades
artPrime PLUS	modern metal primer for the metal-acrylic bond significantly improves the adhesion between artPreOpaque PLUS and the metal frame.
artConnect PLUS	reliable acrylic bonder ensuring excellent bond strength between artDentine PLUS / artEnamel PLUS and highly cross-linked PMMA based veneers or denture teeth.
artPreOpaque PLUS	for priming and improving the adhesive bond between artPrime PLUS and artOpaque PLUS and is optimal when using mechanical retentions.
artOpaque PLUS	to cover metal framework.
artOpaque GUM PLUS	light-curing gingival shaded opaquer and primer all in one to cover metal frames and retentions, saving the additional application of a primer.
artVeneer wax PLUS	tooth-colored fixation wax for attaching artVeneer® life during wax-up and try-in.



Step-by-Step
REF 1092370



MINIset excl. Metal Primer

MINIset incl. Metal Primer

INTROset

STARTset

MINIset excl. Metal Primer

artDentine PLUS Polymer
artDentine PLUS Liquid NT
artConnect PLUS
artPreOpaque PLUS
artOpaque PLUS

in the corresponding shade V-Classic
normal time
acrylic bonder (artVeneer® life - artDentine PLUS)
pre-opaque
in the corresponding shade V-Classic

		35 g	A2	1070468
		100 ml		
		5 ml	A3	1070469
		3 g		
		3 g		

REF

MINIset incl. Metal Primer

artDentine PLUS Polymer
artDentine PLUS Liquid NT
artPrime PLUS
artConnect PLUS
artPreOpaque PLUS
artOpaque PLUS

in the corresponding shade V-Classic
normal time
metal primer (metal - artOpaque PLUS)
acrylic bonder (artVeneer® life - artDentine PLUS)
pre-opaque
in the corresponding shade V-Classic

		35 g	A2	1070470
		100 ml		
		5 ml	A3	1070471
		5 ml		
		3 g		
		3 g		

REF

INTROset

artDentine PLUS Polymer
artDentine PLUS Liquid NT
artPrime PLUS
artConnect PLUS
artPreOpaque PLUS
artOpaque PLUS
artVeneer® life
artVeneer® life

in the corresponding shade V-Classic
normal time
metal primer (metal - artOpaque PLUS)
acrylic bonder (artVeneer® life - artDentine PLUS)
pre-opaque
in the corresponding shade V-Classic
upper anteriors (6 veneers)
upper posteriors (8 veneers)

		35 g	A2	1070466
		100 ml		
		5 ml	A3	1070467
		5 ml		
		3 g		
		3 g		

REF

STARTset

artConcept PLUS
artDentine PLUS Polymer
artDentine PLUS Liquid NT
artPrime PLUS
artConnect PLUS
artPreOpaque PLUS
artOpaque PLUS O1
artOpaque PLUS O2
artOpaque PLUS O3
artVeneer wax PLUS
Accessories

display tray
in V-Classic shades A2, A3, A3.5, A4, B2, B3, C2, D2
normal time
metal primer (metal - artOpaque PLUS)
acrylic bonder (artVeneer® life - artDentine PLUS)
pre-opaque
for the V-Classic shades A2, A3.5, B1, B2, B3, C2, C3, D2, D3, BL1, BL2
for the V-Classic shades A3, A4, B4, C4, D4
for the V-Classic shades A1, C1, BL3, BL4
fixation wax for artVeneer® life
10 brush tips, 1 brush tip holder, 1 short brush, 6 mixing trays

		1 pc.		1070472
		à 35 g		
		100 ml		
		5 ml		
		5 ml		
		3 g		
		3 g		
		3 g		
		3 g		
		45 g		



Individual components

Individual components

REF

artDentine PLUS Polymer

V-Classic shades	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
35 g	REF 1010650	1010651	1010652	1010653	1010654	1010655	1010656	1010657	1010658	1010659	1010660	1010661	1010662	1010663	1010664	1010665

Bleach shades	BL1 Bleach	BL2 Bleach	BL3 Bleach	BL4 Bleach
35 g	REF 1010666	1010667	1010668	1010669

artEnamel PLUS Polymer

V-Classic shades	A1, B1, B2, C1 (E1)	A2, D2, D4, BL1-BL4 (E2)	A3, A4, B3, B4, C2 (E3)	A3.5, C3, C4, D3 (E4)	Transpa Clear (TC)
35 g	REF 1010701	1010702	1010703	1010704	1010700

artConcept® PLUS	display tray made of metal	1 pc.	1010706
artDentine PLUS Liquid NT	normal time	100 ml	1010670
artDentine PLUS Liquid LT	long time	100 ml	1010707
artPrime PLUS	metal primer (metal-artOpaque PLUS)	5 ml	1010713
artConnect PLUS	acrylic bonder (artVeneer® life - artDentine PLUS)	5 ml	1010679
artConnect PLUS	acrylic bonder (artVeneer® life - artDentine PLUS)	50 ml	1010682
artPreOpaque PLUS	pre-opaquer	3 g	1010705
artOpaque PLUS O1	for the V-Classic shades A2, A3.5, B1, B2, B3, C2, C3, D2, D3, BL1, BL2	3 g	1010672
artOpaque PLUS O2	for the V-Classic shades A3, A4, B4, C4, D4	3 g	1010673
artOpaque PLUS O3	for the V-Classic shades A1, C1, BL3, BL4	3 g	1010674
artOpaque PLUS GUM light	paste opaquer with integrated metal primer pink light	3 g	1010677
artOpaque PLUS GUM dark	paste opaquer with integrated metal primer pink dark	3 g	1010678
artVeneer wax PLUS	fixation wax for artVeneer® life	45 g	1010697

Accessories

Brush tips	10 pcs. REF 1010687	Brush tip holder	1 pc. REF 1010686	Mixing trays	6 pcs. 1010685
Short brush	1 pc. REF 1010688	Application syringe	1 pc. REF 1060376		

DENTURE BASE ACRYLICS

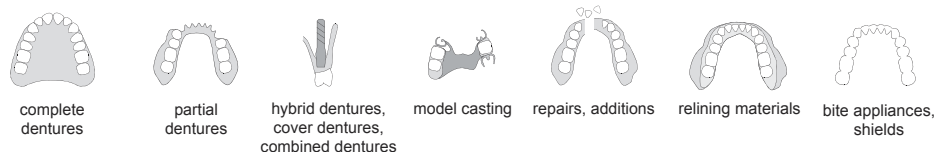


Quality based on competence

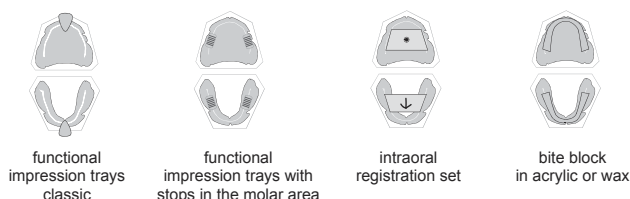
100% Made in Germany

Modern prosthetics require base acrylics that offer a natural, aesthetic appearance and are also not obvious to those within the patient's environment. The dental materials produced by Merz Dental meet these requirements. They remain stable when subject to mechanical, chemical, bacterial and thermal load, retain an accurate fit while being worn, are plaque-resistant, and are not subject to discoloration.

For 70 years, Merz Dental has been producing prosthetic acrylics based on its own cutting-edge procedures and production techniques, and using only high-grade, superior quality polymers and pigments made in Germany at its company headquarters in Lütjenburg, Schleswig-Holstein.



		complete dentures	partial dentures	hybrid dentures, cover dentures, combined dentures	model casting	repairs, additions	relining materials	bite appliances, shields
Weropress® / LT 	CC	✓	✓	✓	✓	✓	✓	✓
Combipress N/LM 	CC	✓	✓	✓	✓	✓	✓	✓
PremEco® Line 	CC	✓	✓	✓	✓	✓	✓	✓
Promolux® HI 	HC	✓	✓	✓	✓	✓	✓	-
Promolux® 	HC	✓	✓	✓	✓	✓	✓	✓



Combitray® CC impression tray	CC	✓	✓	✓	✓			
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PMMA polymethyl methacrylate

Polymethyl methacrylate (PMMA) has become part and parcel of our daily lives, and is one of the high-performance materials used for a variety of purposes. We trust PMMA in many areas of our lives, be it in the home, in technology or in medicine, for example - and these are just some of the application areas. PMMA is also used in aviation for airplane windows, in optics for lenses and optical fibres, in joint replacement as a cement for artificial hips, as well as in ophthalmology for artificial lens implants (intraocular lenses). In dentistry and dental technology, PMMA has proven its worth for over 70 years thanks to its superior elasticity and impact strength, as well as its plaque and temperature resistance and stable form.

During the manufacturing process at Merz Dental the individual production steps are continuously monitored, in order to ensure that our acrylic products are safe, properly processable and durable. For this purpose, the raw and starting materials, its processing and coloring through to the finished prosthetic acrylic are constantly checked and tested for their chemical and physico-mechanical properties. The same applies with regard to curing the required monomers so that cross-linked macromolecular network structures that are stable in the oral environment, dense and shock-absorbent can be achieved when processing prosthetic acrylics. One of the first dental materials to exhibit a cross-linked, and as a result, threedimensional network structure, was the interpenetrating polymer network (IPN for short). It was developed and launched on the market by Merz Dental in Lütjenburg.

Meeting Requirements

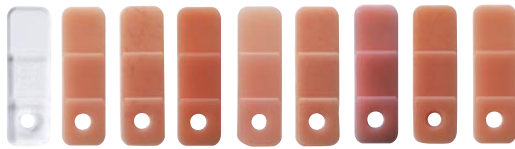
As a medical product, base acrylics must meet numerous requirements as laid down by internationally applicable standards and national guidelines so that during the process the user as well as the patient who will subsequently wear the acrylic denture appliance can be rest assured.

At Merz Dental, reliable resistance to wear in order to prevent discoloration and impurities as well as high standards in terms of chemical, physical and mechanical properties are always monitored and tested on an ongoing basis throughout the entire production process. Prosthetic acrylics are worn in the oral cavity, which is why they must be biocompatible. Merz Dental proves this for each of its prosthetic acrylics based on internationally recognised testing using cytotoxicity assays.

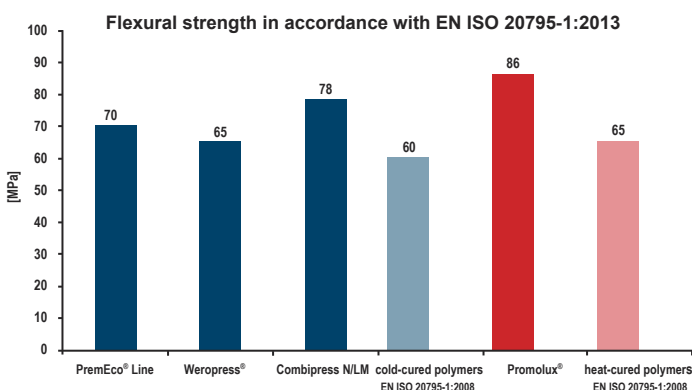
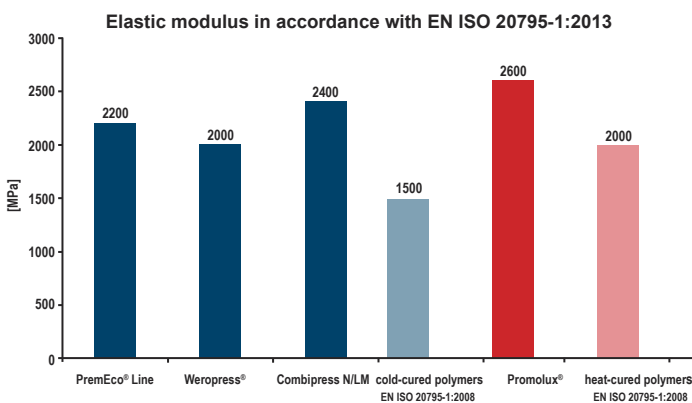
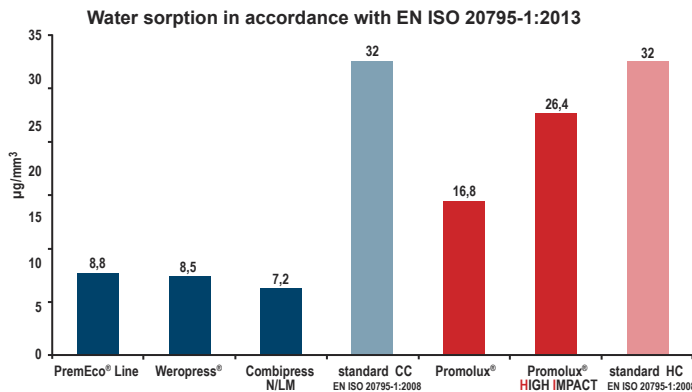
Essential requirements of **EN ISO 20795-1**, the applicable standard for prosthetic acrylics, include fracture toughness, elastic modulus, residual monomer content as well as water sorption in the oral cavity. The prosthetic acrylics produced by Merz Dental meet these requirements.



DENTURE BASE ACRYLICS



For daily use



Prosthetic acrylics from Merz Dental also support efficient, reliable and simple processing. This applies even to the simplest of items, such as droppers, nozzles and measuring cups for monomer and polymer.

- Reliable and simple to measure powder-liquid system
- Targeted, economical application
- Efficient shade communication based on acrylic shade tabs
- All prosthetic acrylics from Merz Dental are compatible in terms of shade and can be processed using commercially-available, cold-curing MMA polymers for the purposes of repair and addition
- Customized shades as of 80 kg purchase quantity are available



COLD-CURING POLYMERS



LT
(Long time)
Monomer



biocompatibility tested

Weropress® / Weropress® LT

THE ALL-ROUNDER



Color stable and precision-fit cold-curing prosthetic acrylics of outstanding quality. Due to its unique polymer and monomer formulation it is suitable for all indications and processes within the injection, press and pouring method.

Weropress® LT Monomer is specially developed for a longer flow phase at higher temperatures. It extends the processing time of the Weropress® denture base acrylic by 2-3 min at temperatures around 21-23 °C. The specifically controlled polymerization process makes the acrylic easier to process, especially in warmer summer laboratory conditions.

AREAS OF APPLICATION

- Complete dentures, partial dentures
- Hybrid dentures, cover dentures, combined dentures
- Model casting
- Repairs, additions, relining materials
- Bite appliances, shields

FEATURES and BENEFITS

- High flexural strength tolerates large undercuts such as maxillary tuber during devesting
- Excellent polishing features
- Superior color stability
- High plaque-resistance
- No late discoloring
- Biocompatibility tested
- Cadmium-free

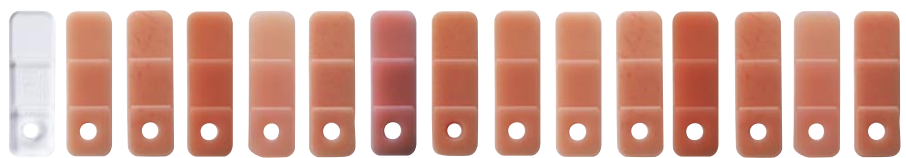
*dark pink-opaque **dark pink-opaque, veined ***pink-bluish

REF	pink	pink veined	pink3	H-pink	L1
100 g	1020045	1025014	1020032	1020039	-
1000 g	1025050	1025051	1025057	1025052	1025038
12 kg	1020092	1020093	-	-	-

REF	^{BD} Load pink	^{BD} Load dark pink	clear	C34*	C34**	CS41***	pink 33% transparent veined	V3	V5	V10
100 g	1025034	1020031	1020048	1020046	-	1020055	1020087	-	-	-
1000 g	1025056	1025058	1025053	1025054	1025041	1025055	1025042	1025039	1025040	1025043
12 kg	-	-	-	1020094	-	-	-	-	-	-

*dark pink-opaque, veined **dark pink-opaque ***pink-bluish

Weropress®	100 ml	REF 1020047
Weropress®	1000 ml	REF 1020086
Weropress® LT	100 ml	REF 1020025
Weropress® LT	1000 ml	REF 1020026



Shade tab REF 1090209



biocompatibility tested

Combipress N/LM

THE SPECIALIST FOR COMBINED AND HYBRID DENTURES



Combipress N
normal curing time

Combipress LM
long modelling phase

Especially developed for combined and hybrid restorations, this color stable cold-curing denture base material ensures an efficient and economical process. The long pouring time of 3 minutes ensures certainty and flexibility when processing more than three acrylic saddles. Thanks to the elongated modelling phase (LM) controlled by the polymer extensive restorations can be processed at the same time. Discoloration resistance, high final hardness and mucous membrane compatibility are further outstanding features.

AREAS OF APPLICATION

- Partial dentures
- Hybrid dentures, cover dentures, combined dentures
- Model casting
- Repairs, additions, relining materials
- Bite appliances, shields

FEATURES and BENEFITS

- Reliable and simple to measure powder-liquid system
- Excellent flow characteristics with a time-controllable transition to modelling phase (N and LM)
- Safe stability enables a simple processing of several saddles
- High resilience
- Quick achievement of high final hardness with little rest monomer content and mucous membrane compatibility
- Excellent polishing features
- Highest color stability
- Colors are coordinated with all Merz Dental denture base materials
- High plaque resistance thanks to cutting-edge PMMA formulation
- No late discoloring thanks to advanced catalyst system
- Biocompatibility tested
- Cadmium-free

REF		pink	pink veined	^{BD} Load pink	clear	C34*	pink 33 % transparent veined	pink transparent veined
Combipress N	100 g	REF 1020704	REF 1025015	REF 1020706	REF 1021406	REF 1020703	REF 1020705	-
Combipress N	1000 g	REF 1025105	REF 1025106	REF 1025109	REF 1025107	REF 1025108	REF 1025110	-
Combipress N	12 kg	REF 1020095	REF 1020096	-	-	-	-	-
Combipress LM	100 g	REF 1021404	REF 1025016	-	REF 1021402	-	REF 1021408	REF 1021407
Combipress LM	1000 g	REF 1025100	REF 1025101	-	REF 1025102	-	REF 1025104	REF 1025103

*dark pink-opaque, veined

Combipress N/LM	100 ml	REF 1021405
Combipress N/LM	500 ml	REF 1022809
Combipress N/LM	1000 ml	REF 1022810



Shade tab REF 1090209

COLD- / HEAT-CURING POLYMERS



biocompatibility tested

PremEco® Line

THE SPECIALIST FOR PROSTHETIC CASTING



Especially developed prosthetic PMMA acrylic for the pouring method for rational processing of partial and complete acrylic prosthetics. The excellent pouring property is especially adjusted for the silicone and gel investment in conjunction with the PremEco® Line casting flask and the PremEco® LineColor System for individual and natural colored characterization. Color stable and compatible with the mucosa with proven biocompatibility.

AREAS OF APPLICATION

- Complete dentures
- Partial dentures
- Hybrid dentures, cover dentures, combined dentures



FEATURES and BENEFITS

- Saves time, reliable and simple dosage and processing
- Especially suited for casting in gel, hydrocolloid or silicone duplication moulds
- Excellent flow
- Individual colorization with the Prosthetic Color System (PCS)
- Colors co-ordinated with the Merz Dental denture base materials
- Extremely robust
- Excellent fit accuracy
- Easy to polish
- High plaque-resistance thanks to most modern PMMA-formulation
- No late discoloring thanks to advanced catalyst system
- Biocompatibility tested
- Cadmium-free

REF	pink	pink-opaque	clear	C34*	C34**	pink trans- parent veined	S34	V5
100 g	REF 1030086	REF 1030087	REF 1030064	REF 1030088	REF 1030090	REF 1030058	-	
1000 g	REF 1025112	REF 1025113	REF 1025114	REF 1025115	REF 1025116	REF 1025117	REF 1025118	REF 1025136

*light pink-opaque, veined **dark pink-opaque, veined

100 ml	REF 1030089
1000 ml	REF 1030073



Shade tab REF 1090208



Manufactured from cast plastic PremEco® Line and PremEco® Line Prosthetic Color System.



biocompatibility tested

Promolux®

THE CLASSIC OPTION



Thanks to continued developments in mechanical and physical properties as well as the paste consistency of the acrylic material, Promolux® can be processed reliably, easily and for a variety of applications regardless of the system in question using the conventional flask and injection moulding procedures.

AREAS OF APPLICATION

- Complete dentures
- Partial dentures
- Hybrid dentures, cover dentures, combined dentures
- Relining materials
- Bite appliances, shields

FEATURES and BENEFITS

- Easy and simple to measure powder-liquid system
- Can be processed with the injection and injection-pressing moulding method
- Easy processing
- Extremely robust
- Easy to polish
- High final hardness
- Color stability
- Colors co-ordinated with the Merz Dental denture base materials
- High plaque-resistance thanks to most modern PMMA-formulation
- No late discoloring thanks to advanced catalyst system
- Biocompatibility tested
- Cadmium-free

REF	pink	pink veined	H-pink
100 g	REF 1020007	REF 1025013	REF 1020038
1000 g	REF 1025125	REF 1025126	REF 1025130
12 kg	REF 1020090	REF 1020091	-

REF	clear	C34*	CS41**	pink 33% trans- parent veined	pink trans- parent veined	V3	V5	V10
100 g	REF 1025004	REF 1020009	REF 1020015	REF 1020019	REF 1020002	-	REF 1020034	-
1000 g	REF 1025127	REF 1025129	REF 1025128	REF 1025134	REF 1025135	REF 1025131	REF 1025132	REF 1025133

*dark pink-opaque, veined **pink-bluish

100 ml	REF 1020008
500 ml	REF 1020036
1000 ml	REF 1025003



Shade tab REF 1090209

HEAT-CURING POLYMERS



biocompatibility tested



Promolux® High Impact

FOR HIGHEST DEMANDS



Denture base acrylic for partial, full and implant supported prosthetics. Complies with all requirements for High Impact acrylics according to EN ISO 20795-1 type 1 class 1.

AREAS OF APPLICATION

- Complete dentures
- Partial dentures
- Hybrid dentures, cover dentures, combined dentures
- Relining materials
- Bite appliances, shields

FEATURES and BENEFITS

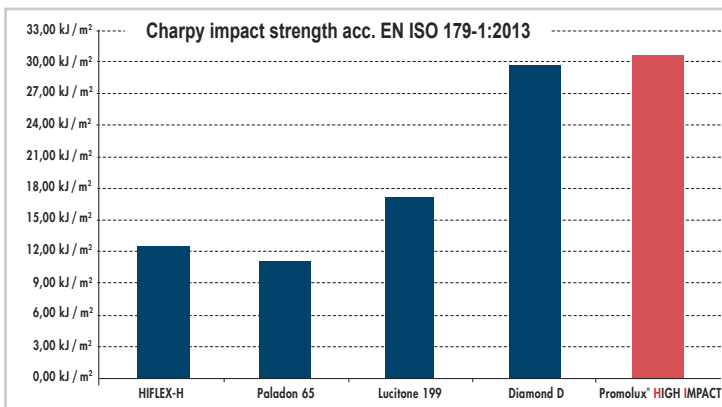
- 300% higher impact resistance compared to conventional heat-curing acrylics
- 200% higher impact strength compared to conventional heat-curing acrylics
- Residual monomer < 2%
- Free from phthalate
- Easy handling
- For the injection and press technique
- Usual application and processing
- Easy to polish
- Colors coordinated with the Merz Dental denture base materials
- Color stable thanks to advanced catalyst system
- High plaque-resistance thanks to most modern PMMA-formulation
- Biocompatibility tested
- For additions, relineable
- Cadmium-free colors

REF	pink	L1	C 34*
100 g	REF 1020063	REF 1020065	REF 1020064
1000 g	REF 1025120	REF 1025121	REF 1025122
100 ml	REF 1020062	*dark pink-opaque, veined	
500 ml	REF 1020061		
1000 ml	REF 1020060		

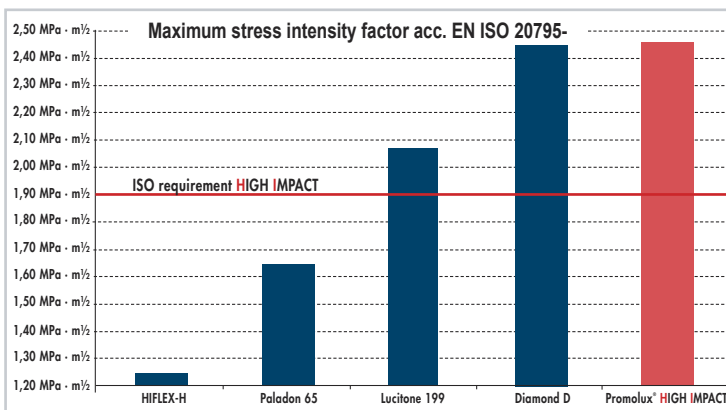


Shade tab
REF 1090269

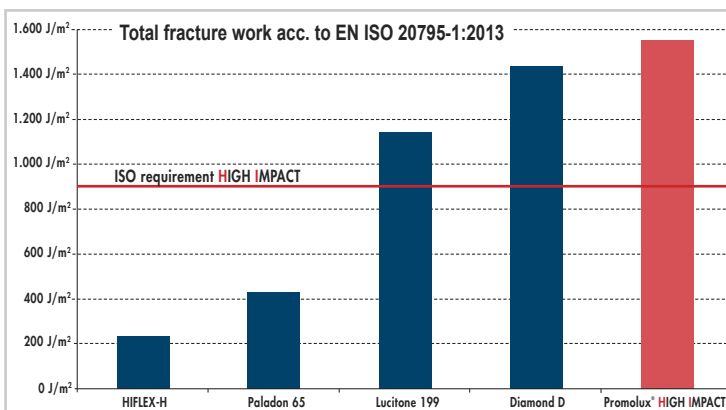
Merz Dental Research & Development



Promolux® HIGH IMPACT is extremely tough to sudden dynamic stresses e.g. when denture is dropped during cleaning. Exceeds expectations of patient and dentist.



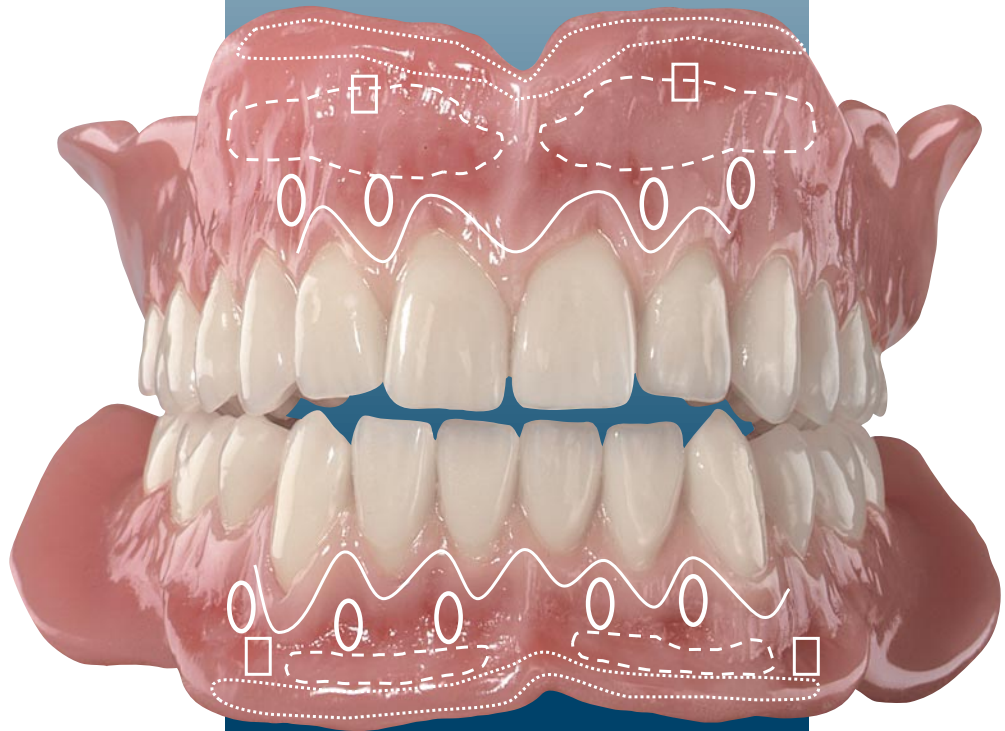
Maximum stress intensity factor - energy required to generate fracture via crack extensions - Promolux® HIGH IMPACT more than 2,46 MPa·m½







Total fracture work - energy and time required over a prolonged load to fracture the material Promolux® HIGH IMPACT more than 1500 J/m²

Prosthetics Color System

PremEco® Line



-  anemone
-  coral
-  shell
-  anemone & sapphire
-  coral & ruby





Prosthetics Color System

Superb-quality and particularly long-lasting shade characterization of acrylic prosthetics and saddles comes from within and is thus superior to stains. Based on cold-curing PMMA the Prosthetic Color System is especially suited for laying the staining. Durability and color stability are of benefit in addition to the simple processing. For shade customization of artificially replicated gingiva, standard and intensive shades are provided that offer a natural appearance and can be mixed together as required.

AREAS OF APPLICATION

Individual shade characterization of the artificial gingival and full dentures

Standard colors

- shell
- coral
- anemone

Intensive colors

- opal -
- topaz
- ruby
- sapphire



FEATURES and BENEFITS

- Due to the chemically homogeneous MMA base, strong bond with PremEco® Line denture base acrylic
- Easy processing due to direct application in the duplicating mould (gel, hydrocolloid or silicone)
- Mould and shade design
- Natural color effect through layering technique
- Extremely easy to polish
- Color stable
- Small variety in order to fulfil the highest aesthetic demands
- Plaque resistant
- Cadmium-free

REF 1030074	PremEco® Line Prosthetics Color System Set 1	
REF 1030019	PremEco® Line Prosthetics Color System Set 2	
REF 1030082	PremEco® Line PCS Refill shell	100 g
REF 1030083	PremEco® Line PCS Refill coral	100 g
REF 1030085	PremEco® Line PCS Refill anemone	100 g
REF 1030014	PremEco® Line PCS Refill shell	35 g
REF 1030015	PremEco® Line PCS Refill coral	35 g
REF 1030016	PremEco® Line PCS Refill anemone	35 g
REF 1030010	PremEco® Line PCS Refill opal	8 g
REF 1030011	PremEco® Line PCS Refill topaz	8 g
REF 1030012	PremEco® Line PCS Refill ruby	8 g
REF 1030013	PremEco® Line PCS Refill sapphire	8 g
REF 1030007	PremEco Line PCS Refill anemone	8 g
REF 1030008	PremEco Line PCS Refill shell	8 g
REF 1030009	PremEco Line PCS Refill coral	8 g



Coloring Guide
REF 1090965

SET-UP WAX



PremEco® Line NF

SET-UP WAX

Temperature-resistant modelling wax for all types of dental prosthetics related work with high softening temperature and inconspicuous coloring for the wax try-in.

AREAS OF APPLICATION

Wax set-up of acrylic teeth for all types of work in dental prosthetics related, e.g. for partial and full dentures, cast model saddles, immediate and interim dentures, additions

FEATURES and BENEFITS

- Safely fixes acrylic teeth in place by means of microcrystalline wax
- Can be used during any season
- Due to a softening temperature of more than 52 °C, it is especially suited for longer try-ins
- No distortion when using duplicating gels
- High strength
- Minimal resetting when cooling down
- Minimal solidification contraction
- Minimal resetting after plastic deformation
- Can be shaped by means of cutters and grinders
- Natural color

COLOR

pink

DELIVERY FORM

- | | |
|-------------------------------|-------------|
| ■ 95 g (approx. 5 sheets) | REF 1030210 |
| ■ 500 g (approx. 22 sheets) | REF 1030212 |
| ■ 2500 g (approx. 120 sheets) | REF 1030213 |



artWax

SET-UP WAX

Temperature-resistant, tough four-season set-up wax with a high softening temperature for all types of dental prosthetics related work.

AREAS OF APPLICATION

Wax set-up of acrylic teeth for all types of work in dental prosthetics related, e.g. for partial and full dentures, cast model saddles, immediate and interim dentures, additions

FEATURES and BENEFITS

- Safely fixes acrylic teeth in place
- Can be used all-season
- Especially suitable for long fitting and the use of duplicating gel
- Lowest spring-back (flow), high accuracy of form and dimension
- Low solidification contraction, low distortion after cooling
- Precise, clean modelling
- Very good polishing properties

COLOR

Natural pink color corresponding to the hot and cold curing Merz Dental denture base acrylics Promolux®, Weropress®, Combipress and PremEco® Line.

DELIVERY FORM

- | | |
|-----------------------------|-------------|
| ■ 500 g (approx. 24 sheets) | REF 1030252 |
|-----------------------------|-------------|



ALGINATE ISOLATING SOLUTION / PRECISION GEL



PremEco® Line

ALGINATE ISOLATING SOLUTION

This special isolating material for plaster against denture acrylic is suited for processing hot-curing and cold-curing polymers. Due to its extremely spreadable consistency, it is very easy to apply and adheres perfectly to the plaster.

AREAS OF APPLICATION

For all set-up work, relines, repairs and additions of partial and full dentures, saddles of model cast dentures, removable saddles of combined dentures, immediate and temporary dentures.

FEATURES and BENEFITS

- Liquid, formaldehyde-free mixture of alginate, water and preservatives
- Highly spreadable consistency
- Easy application on the plaster model
- Excess material is not bound and can be easily removed
- Extremely smooth and thin isolating layer
- Clear visual control due to high-gloss film
- Denture can be easily removed after polymerization

COLOR

slightly violet

DELIVERY FORM

- 1000 ml REF 1030077

PremEco® Line NF

PRECISION GEL

Highly precise, reversible duplicating material based on hydrocolloid agar-agar, made from high-quality natural products, for partial and full denture casting, model casting as well as for duplicating dental plaster, gypsum-based and phosphate-bonded investment material.

AREAS OF APPLICATION

Particularly suited for processing acrylic dentures in the pouring technique, for the construction of investment models for partial dentures and for the duplication of plaster models.

FEATURES and BENEFITS

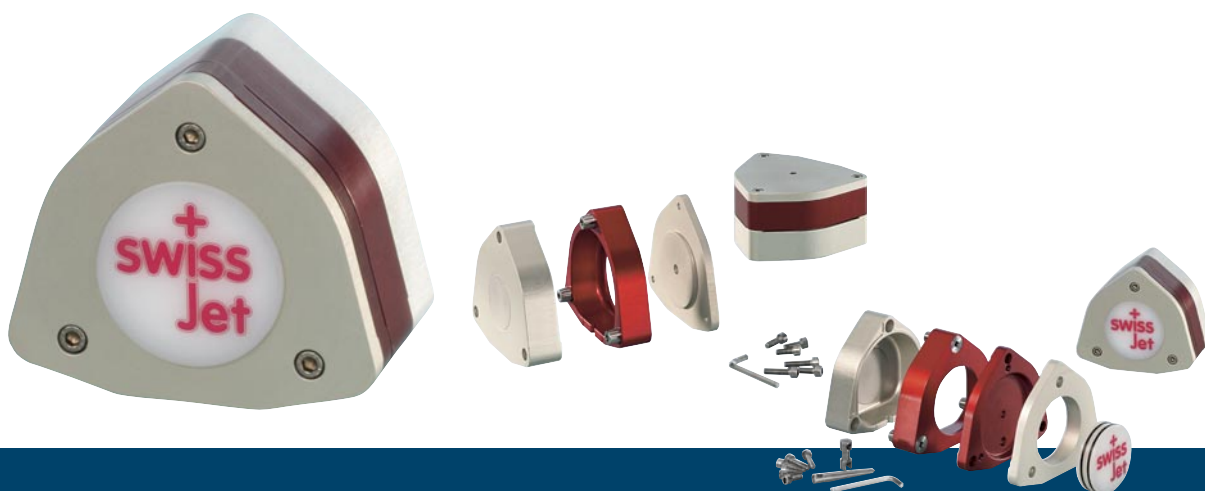
- For high quality and reversible duplicating
- Elastic duplicating material for dental plaster, gypsum-based investments and phosphate-bonded investments
- Thin-flowing, true to detail and volume with a very smooth finish and clean surface
- Particularly high strength during the polymerization of denture acrylics
- Possesses high elasticity and volumetric strength
- Direct resilience for trouble-free deflasking
- Excellent visual control of contours thanks to green-opaque color
- True to volume
- Can be melted in the microwave

COLOR

green

DELIVERY FORM

- 6 kg REF 1030097



Swiss Jet

ALL-IN-ONE-FLASK

The Swiss Jet flask for the injection and pack-press method is an all-rounder. The corrosion resistant flask, which closes precisely due to the cone fit and which is designed for the highest continuous stresses, is easy to handle and does not require any additional installations such as compressed air and a special water connection.

AREAS OF APPLICATION

- Completion of partial and full dentures
- Telescopic and cover dentures
- Bite splints of all types

FEATURES and BENEFITS

- No additional installations required, hydraulic press is sufficient
- For heat-curing polymers, e.g. Merz Dental Promolux®
- For cold-curing polymers, e.g. Merz Dental Weropress®
- For vinyl polymer denture base materials, e.g. Luxene®
- Due to triangular shape, optimum height width-depth ratio
- Extremely wide and high models can also be embedded easily
- No bracket required, screw connection takes place under pressure in the hydraulic press
- With 100 bar = 40 kN pressure achieving the optimum compression of acrylic
- Precision locking
- Corrosion-resistant

DELIVERY FORM

- A combined injection and pack-press flask
REF 1030095



"Swiss Jet impresses with the simplest handling and processing of heat- and cold-curing acrylics with maximum compression and minimal bite elevation."

Max Bosshart, MDT, Switzerland



Step-by-Step
REF 1090236



PremEco® Line

POURING FLASK

Robust, distortion-free duplicating flask used with the pourable casting technique to produce partial and full acrylic dentures, model cast dentures, double-crown and cover dentures, as well as for all types of bite splints.

AREAS OF APPLICATION

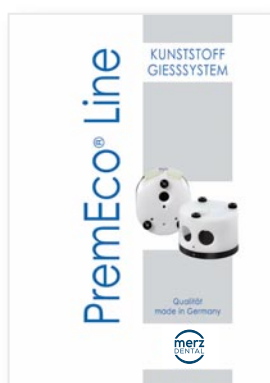
For rational production of acrylic dentures due to gel-hydro-colloid investment with fast processing and finishing following polymerization. Suitable for methylmethacrylate-based denture acrylics.

DELIVERY FORM

- | | |
|--------------------------|-------------|
| ■ Normal, Ø 110 mm | REF 1030078 |
| ■ Large, Ø 125 mm | REF 1030079 |
| ■ Channel cutter, Ø 8 mm | REF 1030080 |
| ■ Replacement screw | REF 1030084 |

FEATURES and BENEFITS

- Opening and closing in seconds thanks to handy, precise knurled screws
- Flask cover and upper part made of torsion-resistant hard plastic
- Continuous markings for easy assembly of the flask parts
- Recess on the underside of the flask for magnets, no lateral offset when repositioning the models (no pseudo-displacement of the center of the model, no pseudo-bite elevation)
- Flushable lower part of the flask made of metal for better supply and dissipation of thermal energy
- Optimal positioning of the gel filling hole matched to the filling spout of the automatic duplicating gel machine
- Stabilization bars and retention holes for the duplicating gel when opening the flask and removing the model as well as for securing the occlusion against the polymerization pressure
- Large, parallel filling holes for a controlled, fast, mould-filling pouring process
- Parallel filling reservoir controls the polymerization process in the flask
- High level of leak-tightness of the flask due to milled grooves and O-ring
- No adhesion of the denture acrylics to the flask parts
- Easy to clean



Step-by-Step
REF 1090298

TRAY MATERIAL



Biocompatibility tested

Combitray CC

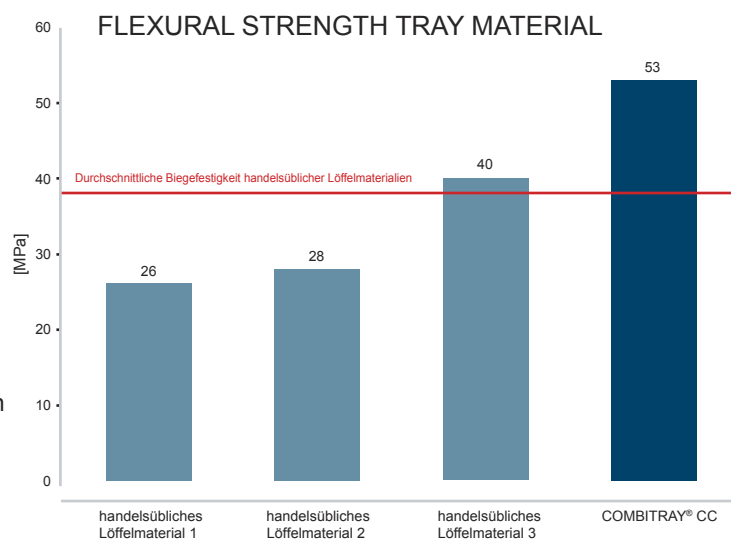


POWDER-LIQUID-BASED TRAY MATERIAL, SELF-CURING

Dimensionally-stable tray material that offers flexural strength with a short doughing time for the fabrication of custom impression trays, base plates and intraoral registration templates. Does not contain amines and separates from plaster by itself thanks to a cutting-edge chemical formulation.

FEATURES and BENEFITS

- Short mixing and doughing time
- Long processing interval, 4 min
- Does not stick to hands and is not greasy
- Simple and reliable moulding and adaption
- No unpleasant odours, does not contain amines
- Can be added onto with identical material
- Easily removable from the model following curing, separates from plaster models by itself
- High flexural strength, comparable products tolerate an average of 39 MPa, Combitray CC supports 53 MPa, which corresponds to material strength of approx. 5 kg/mm²
- Low shrinkage, dimensionally stable
- No smearing when milling



	pink	white
125 g	REF 1020101	REF 1020102
1250 g	REF 1020103	REF 1020104
50 ml	REF 1020100	
500 ml	REF 1020105	

THERMOPLASTIC IMPRESSION MATERIAL



VIDEO
BD Impress®

BD Impress

BIOCOMPATIBLE, THERMOPLASTIC IMPRESSION MATERIAL

AREAS OF APPLICATION

For bite registrations, anterior bite splints, individual impression trays, bleaching trays, border reconstruction of impressions, border moulding on functional impressions, orthodontic appliances.

FEATURES and BENEFITS

- Takes less than one minute to use
- Dimensionally stable
- Can be finished directly in the mouth
- Smooth, glossy surface requires no polishing
- No mixing or chemical polymerization
- 5 minute bench set, or immediate setting in cold water
- Odorless and reusable
- High levels of accuracy and precise detail
- Quick production of base plates
- Translucent white
- Individually dosed

With a dip in hot water, BD Impress® softens to a pliable putty, which hardens into an unbreakable thermoplastic resin. The biocompatible BD Impress® can be reshaped as many times as it takes to achieve the perfect impression or bite registration.

DELIVERY FORM

- 200 g REF 1032126



CE

TECHNOLOGY

ADAM

Subtractive and additive manufacturing



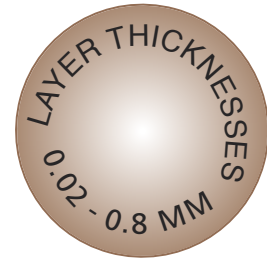


mμ ILLUSION

Color and Micro-Layering Technique



Exclusive Edition



m μ ILLUSION



VIDEO
Characterization
posterior crown



VIDEO
Characterization
anterior crown

With the new paste-like, opalescent and fluorescent *m μ ILLUSION* stains *m μ ILLUSION* Color, the layering materials *m μ ILLUSION* Paste and glaze materials for coloring and structuring, Merz Dental is now expanding its attractive M-ZR Disc zirconium dioxide range to new dimensions in your zirconium dioxide and lithium disilicate restorations - monolithic or in micro-layer technique.

The impressive *m μ ILLUSION* range with 14 gingiva shades, among others, covers the complete color spectrum for all tooth and gingiva designs.

The unique consistency and microfine particle structure enables a particularly pleasant and simple handling of spatially stable and precise application of high three-dimensional stability and impresses with its extraordinarily high opacity.

Even with layer thicknesses of 0.02 mm for the stains *m μ ILLUSION* Color and from 0.2 mm to 0.8 mm for the layering materials *m μ ILLUSION* Paste, minimally invasive layers with a three-dimensional nature-identical depth effect, mould finesse, morphology and individual surface structures are realisable using the cut-back method.

Highly aesthetic results, comparable to layered restorations, can be achieved quickly and easily with just one firing. The final color result can be seen as soon as it is applied, remains unchanged during and after firing and thus offers visual control at all times.

AREAS OF APPLICATION

m μ ILLUSION Color und Paste for the production and characterization of crowns & bridges made of:

- Monolithic zirconium dioxide (Y-TZP)
- Metal ceramic
- Pressed ceramic
- Lithium disilicate (monolithic)
- Lithium disilicate (veneered)
- Zirconium dioxide (Y-TZP), veneered
- Particularly suitable for the characterization of monolithic anterior crowns and bridges using the Cut-back / Color and Micro-Layering Technique





INDIVIDUALITY UNLIMITED

mμILLUSION supports economical storage of CAD/CAM blanks. It is also possible to adjust the original color by up to three shades lighter or darker. This means that different colors and thus different characteristics of teeth of all ages can be created from the same framework material.

Whether youthful or age-appropriate, the color design of the gingiva represents a major challenge. With mμILLUSION Gingiva Color and Paste there are no limits to the design. Whether marginal or attached gingiva, mμILLUSION has the properties to imitate the individuality of a natural pink aesthetic with little effort.

MONOLITHIC CROWNS AND BRIDGES

Monolithic crowns and bridges made of multilayer zirconium dioxide ceramics show a static incisal-dentine gradient due to the product-specific vertical color layers. To this day, individual features are created, especially in the anterior region, using additional ceramic veneers or imitated by using stains, whereby aesthetic compromises have to be made with the pure staining. Thanks to the unique consistency of the mμILLUSION Color and Paste ceramics, individual micro-layers are now also possible in the anterior region. There is no need for layering with zirconium veneering ceramics.

The unique consistency and particle distribution of the mμILLUSION Paste ceramic enables its spatially stable and precise application. The high three-dimensional stability and the color-fast ceramic structure of the pastes make work easier and enable visual checks at all times. The special manufacturing process and the complex quality assurance measures in the production of mμILLUSION Color and Paste guarantee a dense, homogeneous surface and all the advantages of a modern dental ceramic in terms of biocompatibility, physical and chemical properties and wear performance





3 for all applications

For the processing of monolithic materials, it is important to have, in addition to stains, a paste-like ceramic that imitates incomparably the surface texture, luminescence and opalescence of tooth enamel.

With three sets for each method, Merz Dental offers a strong selection of colors and pastes. A highlight is the gingiva set, with its internationally unique range of gingiva colors and pastes will inspire every user.



m μ ILLUSION Color und Paste gingiva shades are unique as they enable the design of the gingiva parts of monolithic or ceramic restorations whenever soft tissue is missing, for example when working on implant-supported restorations or bridges.

- **Basic Set**

an impressive large variety

- **Professional Set**

a well-thought-out system of stains and pastes for the full range of all types of monolithic or ceramic restorations

- **Gingiva Set**

for imitating the natural gingiva

The new m μ ILLUSION Paste gingiva shades in combination with the m μ ILLUSION Color gingiva shades cover the entire shade spectrum of the marginal gingiva, the attached gingiva, up to the alveolar mucosa in the fold area.

COLOR AND MICRO-LAYERING TECHNIQUE



^mILLUSION Sets

Basic Set

REF 1019965

- 4 x Color Body à 4 g
- 2 x Color Enamel à 3 g
- 5 x Color Effect à 3 g
- 1 x Paste Enamel 4 g
- 1 x Paste Dentine 4 g
- 1 x Glasur glaze fluor 5 g
- 2 x Liquid à 25 ml
- Brushes no. 2 / no. 4



Professional Set

REF 1019967

- 1 x Color Enamel à 3 g
- 4 x Color Effect à 3 g
- 5 x Paste Enamel à 4 g
- 1 x Paste Character 4 g
- 4 x Paste Transpa à 4 g
- 2 x Liquid à 25 ml
- Brushes no. 2 / no. 4



Gingiva Set

REF 1019966

- 5 x Color Gingiva à 3 g
- 9 x Paste Gingiva à 4 g
- 1 x Glasur glaze 5 g
- 2 x Liquid à 25 ml
- Brushes no. 2 / no. 4





mμILLUSION Color and Paste

FEATURES and BENEFITS

mμILLUSION Color

- characterizes the horizontal color and transparency gradations of multilayer blanks
- provides lithium disilicates with shades like natural teeth
- creates light dynamics that can otherwise only be achieved with layered crowns and bridges

mμILLUSION Paste

- for homogeneous surfaces and sculptural depth effect
- provides same results before and after fixing, thanks to low shrinkage and color stability
- for micro-layering in the cut-back technique, structures from 0.2 mm to 0.8 mm are realizable with one firing

mμILLUSION Gingiva Color and Paste

- unique and exclusive assortment
- for the natural appearance of gums through individual design

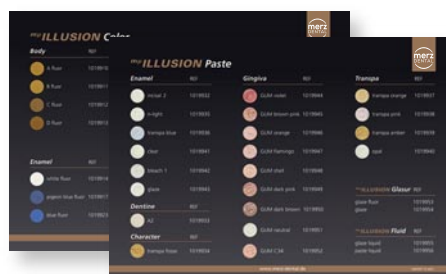
MATERIAL FEATURES

mμILLUSION Color and Paste

- provides same results before and after fixing, thanks to low shrinkage and color stability
- for precise and stable application with very good moulding properties
- reduce the storage of CAD/CAM blanks, the original color can be corrected by up to three shades lighter or darker



Brochure
REF 1092466



Color guide
REF 1092457

COLOR AND MICRO LAYERING TECHNIQUE



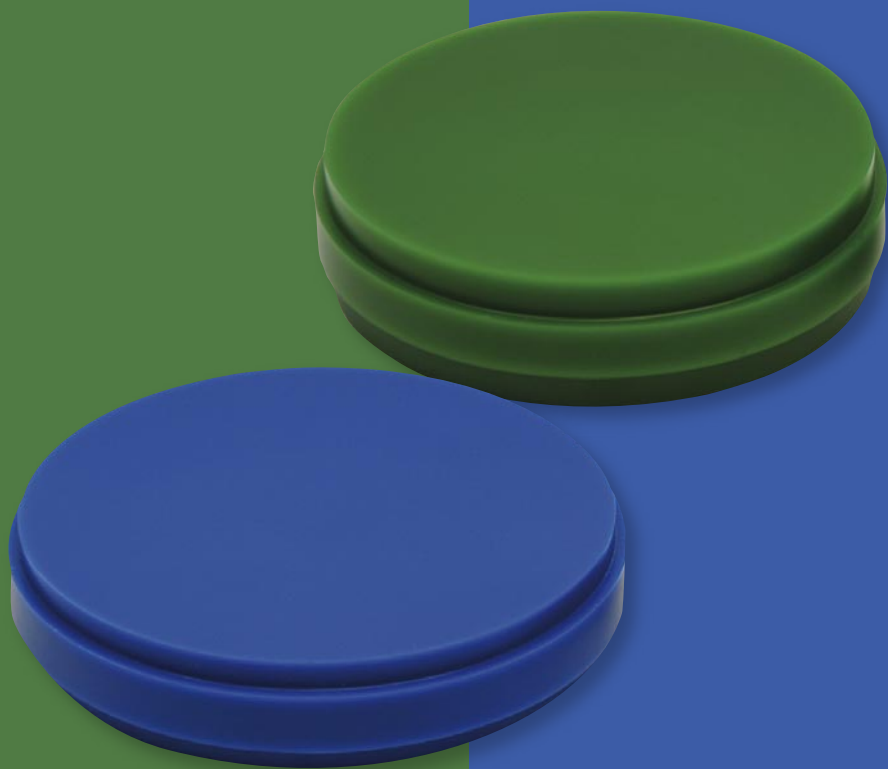
	<i>Color</i>		REF	<i>Paste</i>		REF
Body	A fluor	4 g	1019910	incisal 2	4 g	1019932
	B fluor	4 g	1019911	n-light	4 g	1019935
	C fluor	4 g	1019912	transpa blue	4 g	1019936
	D fluor	4 g	1019913	clear	4 g	1019941
Enamel	white fluor	3 g	1019914	bleach 1	4 g	1019942
	pigeon blue fluor	3 g	1019917	glaze	4 g	1019943
	blue fluor	3 g	1019923	Dentine A2	4 g	1019933
	orange fluor	3 g	1019915	Character transpa fosse	4 g	1019934
Effect	smoke fluor	3 g	1019916	GUM violet	4 g	1019944
	red brown fluor	3 g	1019918	GUM brown pink	4 g	1019945
	light orange fluor	3 g	1019919	GUM orange	4 g	1019946
	khaki fluor	3 g	1019920	GUM flamingo	4 g	1019947
	olive fluor	3 g	1019921	GUM shell	4 g	1019948
	grey fluor	3 g	1019922	GUM dark pink	4 g	1019949
	dark brown fluor	3 g	1019924	GUM dark brown	4 g	1019950
	yellow fluor	3 g	1019925	GUM neutral	4 g	1019951
	GUM red purple	3 g	1019926	GUM C34	4 g	1019952
	GUM rose	3 g	1019927	transpa orange	4 g	1019937
Gingiva	GUM rose pink	3 g	1019928	transpa pink	4 g	1019938
	GUM coral red intensive	3 g	1019930	transpa amber	4 g	1019939
	GUM red intensive	3 g	1019931	opal	4 g	1019940
	glaze fluor	5 g	1019953			
Glasur		7 g	1019959			
	glaze	5 g	1019954			
Fluid	glaze liquid	25 ml	1019955			
	paste liquid	25 ml	1019956			
Brushes	Brush no. 2	2.2 mm, 8 mm	1 x	1019957		
	Brush no. 4	5.4 mm, 9 mm	1 x	1019958		

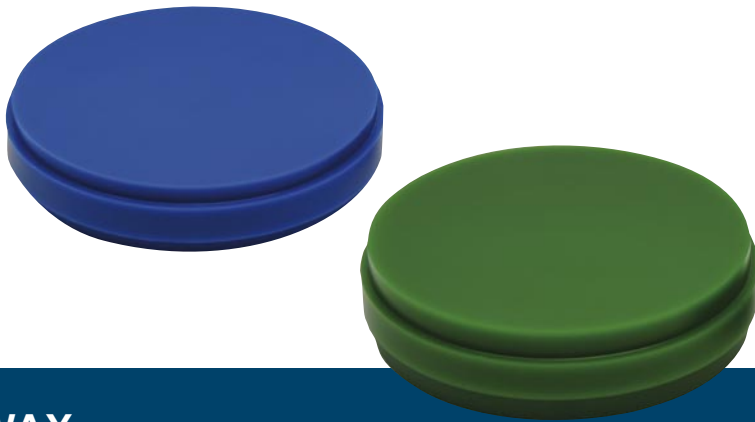


M-WAX

CAD / CAM
WAX BLANKS

FOR THE
CAST TECHNOLOGY





M-WAX

MADE OF SPECIAL WAX IN HIGHEST QUALITY

The M-WAX discs have been especially adjusted to the dental CAD/CAM technique and fulfil the special demands of dental technicians while meeting the technical milling process requirements of embeddable objects for casting, pressing and overpressing techniques.

100% residue-free burnout special wax guarantees excellent millability and perfect, clean and smooth cast surfaces.

The optimized features of the wax allow also the manufacture of highly delicate forms. Any shrinkage or distortion of the milled object is prevented. The temperature stable, investment compatible and volume stable special wax ensures absolutely exact accuracy of marginal finishings and fits.

The special wax compositions of the two M-WAX color and hardness options (from hard to medium hard) have been tailored to the specific applications and offer different advantages, such as optimal visual contrast and specific required properties adjusted to their individual indications.

Particularly suited for embeddable CAD/CAM based
model-casted constructions

Color variation: **green**

Strength: **hard**

- special wax with increased fracture resistance due to resin reinforcement

Particularly suited for embeddable CAD/CAM based
crowns and bridges made of wax for the casting, pressing and overpressing techniques

Color variation: **blue**

Strength: medium **hard**

- special wax

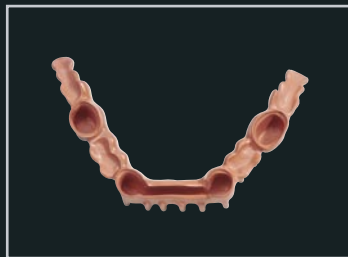
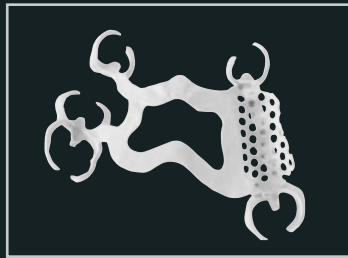
FEATURES and BENEFITS

- Different colors for different applications
- Good contrast to the model material
- Burn-out milling blank for the CAD/CAM technique
- Possibilities of virtual modelling of model casting frameworks, crowns and bridges and their implementation in the casting technique
- Burns-out without residue
- Smooth surfaces after processing
- The mechanical properties of the wax enable the production of detailed moulds
- No shrinkage or distortion of the wax object
- Exact marginal fits
- For diagnostic wax-ups
- Combination of classic craftsmanship and digital workflows

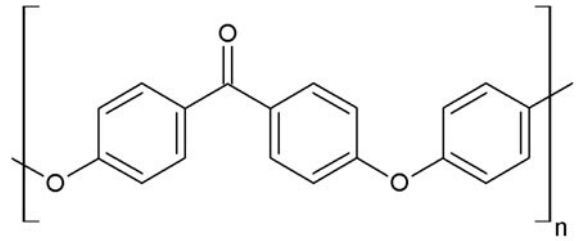
Dimension	Color	Strength	REF
Ø 98.5 mm x 20 mm	green	hard	1019306
Ø 98.5 mm x 25 mm	green	hard	1019305
Ø 98.5 mm x 14 mm	blue	medium hard	1019304
Ø 98.5 mm x 20 mm	blue	medium hard	1019303

PEEK BioSOLUTION®

BIOBALANCE
IN PROSTHETICS



SUBTRACTIVE MANUFACTURING



EU MEDICAL DEVICE CLASS IIB

PEEK BioSOLUTION®

POLYETHER ETHER KETONE THE INTELLIGENT HIGH-PERFORMANCE POLYMER

WORLDWIDE THE FIRST APPROVED DENTAL PEEK DISC OF MEDICAL DEVICE CLASS IIB

FOR DEFINITIVE FIXED CONSTRUCTIONS SUCH AS BAR CONSTRUCTIONS AND SUBGINGIVAL PLACED HYBRID ABUTMENTS AND CERVICAL GINGIVA FORMERS.

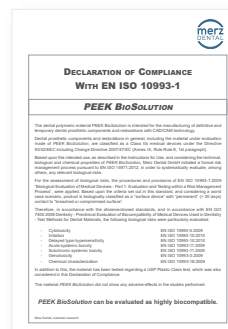
PEEK BioSolution® with its ideal combination of biocompatibility and maximum loading capacity is the premium solution for the biological balance of denture base and restorative material. The proven medical-grade-quality used as reliable surgical endoprosthetics material is currently the most interesting dental CAD/CAM material for manufacturing high-end medical device class products. PEEK BioSolution® is manufactured by an industrially controlled production process with consistently high quality made in Germany.

AREAS OF APPLICATION

- Hybrid abutments
- Gingiva formers
- Bar constructions
- Tertiary constructions
- Telescopic crowns
- Crowns and bridges
- Transversal connectors
- Occlusal splints
- Denture bases



CONSTANT QUALITY CONTROL,
SAFETY AND STABILITY DURING
PRODUCTION PROCESS



Biocompatibility tested

IDEAL PHYSICAL AND CHEMICAL MATERIAL CHARACTERISTICS

- The future number one choice of metal-free prosthetic material due to its human bone-like elasticity and high-tenacity in combination with almost non-existent material fatigue
- Polyether ether ketone is biocompatible, wear-resistant and at the same time elastic like the human bone
- The optimal physical properties of PEEK allow about the identical construction dimensions as with metal materials
- Controlled industrial technical long-term temper process guarantees minimal material tension and best homogeneous crystallization
- Extremely high flexural strength and wear resistance
- Excellent chewing and better wearing comfort opposed to metal constructions
- Individualizable by using well-established veneer and composite materials incl. artVeneer® / artVeneer® life veneer shells in conjunction with the artConcept® PLUS Veneering System
- Sterilizable (Validated method in accordance with EN ISO 17665)

WEARING TIME WITHOUT LIMIT

- Suitable for the permanent, definitive and surgically invasive treatment

ANTI-ALLERGENIC

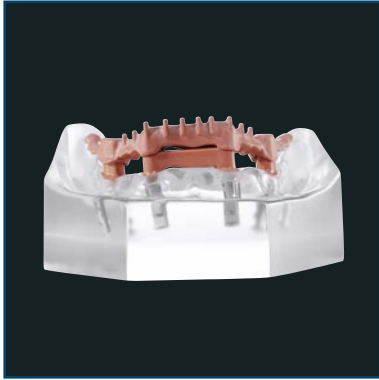
- Free from metal and monomer particularly suitable for allergy sufferers

LOW SPECIFIC MATERIAL WEIGHT HUMAN BONE-LIKE

AESTHETIC COLOR RANGE

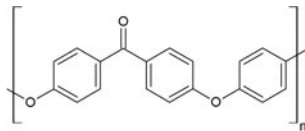
- White
- A2/B2
- GUM

SUBTRACTIVE MANUFACTURING



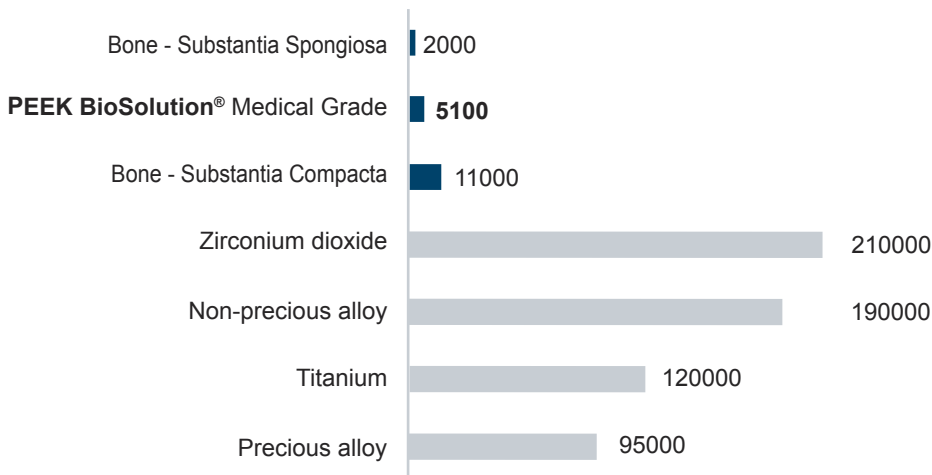
Biobalance - Physiological

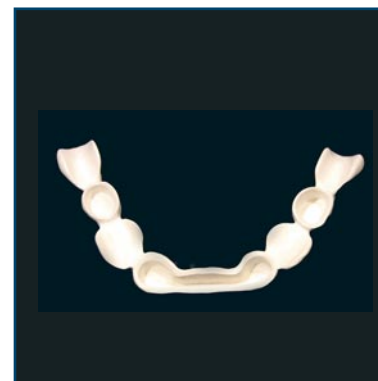
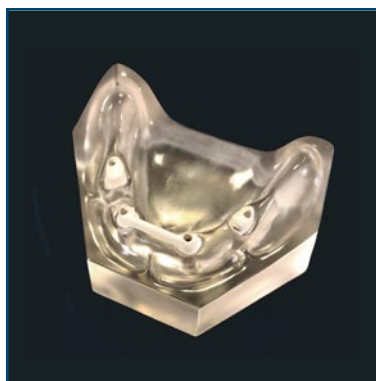
PEEK BioSolution®
POLYETHER ETHER KETONE



BIOBALANCE - PHYSIOLOGICAL

ELASTICITY - HUMAN BONE / DENTAL FRAMEWORK MATERIALS





Medical grade

PEEK BIOSOLUTION® - MEDICAL GRADE



White & A2/B2

GUM

PEEK BIOSOLUTION® - MEDICAL GRADE	White & A2/B2	GUM
Flexural strength in accordance with EN ISO 20795-1	170 MPa	170 MPa
Elastic modulus / flexural modulus in accordance with EN ISO 20795-1	5100 MPa	4500 MPa
Flexural strength in accordance with EN ISO 10477	200 MPa	220 MPa
Charpy notched impact strength 1eA in accordance with EN ISO 179	4.1 kJ/mx	3.7 kJ/mx
Charpy impact strength 1eU in accordance with EN ISO 179 no material failure	> 100 kJ/mx	> 100 kJ/mx
Vickers hardness acc. EN ISO 6507-1	32 HV 0.2	27 HV 0.2
Ball indentation hardness EN ISO 2039-1 after 10 sec loading at 961 N	385 MPa	350 MPa
Total fracture work in accordance with EN ISO 20795-1 Standard testing for hl resins requires at least 900 J/mx	1900 J/mx	8500 J/mx
Fracture toughness in accordance with EN ISO 20795-1 Standard testing for hl resins requires at least 1.9 MPa x \sqrt{m}	4.7 MPa x \sqrt{m}	6.7 MPa x \sqrt{m}
Linear thermal expansion coefficient	1.7 p 10 ⁻⁵ /K	1.7 p 10 ⁻⁵ /K
Water absorption in accordance with ISO 62	0.4 %	0.4%
Sliding friction coefficient	Al ₂ O ₃ r f = 0.13 ZrO ₂ r f = 0.13	Al ₂ O ₃ r f = 0.09 ZrO ₂ r f = 0.10
Cytotoxicity test in accordance with EN ISO 10993-5	Max. value for biocompatibility (= 100 %)	

SUBTRACTIVE MANUFACTURING



		A2/B2	White	GUM
	Ø 95 mm x 10 mm	1018955	1018950	
	Ø 95 mm x 12 mm	1018956	1018951	
	Ø 95 mm x 16 mm	1018957	1018952	1019223
	Ø 95 mm x 20 mm	1018958	1018953	1019224
	Ø 95 mm x 24 mm	1018959	1018954	1019225
	Ø 95 mm x 26 mm	1018988	1018982	
	Ø 95 mm x 30 mm	1018989	1018983	1019227
	Ø 98.5 mm x 10 mm	1018965	1018960	
	Ø 98.5 mm x 12 mm	1018966	1018961	
	Ø 98.5 mm x 16 mm	1018967	1018962	1019230
	Ø 98.5 mm x 20 mm	1018968	1018963	1019231
	Ø 98.5 mm x 24 mm	1018969	1018964	1019232
	Ø 98.5 mm x 26 mm	1018990	1018984	
	Ø 98.5 mm x 30 mm	1018991	1018985	1019234

Ø 8 mm x 1.000 mm

A2/B2

White

GUM

1018993

1018992

1018994



PEEK *NATURE*

PREMIUM
BIOBALANCE
IN PROSTHETICS



SUBTRACTIVE MANUFACTURING



PEEK NATURE, FOR ALL WHO
PROCESS 100% BIOCOMPATIBLE
MATERIALS.

EU MEDICAL DEVICE CLASS IIa

PEEK NATURE

PREMIUM BIOBALANCE FOR DENTAL PROSTHETICS

Sophisticated production technologies create a chemically inert, homogeneously crystallized and biocompatible material. The stable, lightweight PEEK, which has been proven for years in surgery, offers maximum comfort and is ideally suited for fixed and removable dental restorations. CAD/CAM-based manufacturing guarantees precision from clasp model casting to implant-supported work.

- 100% PEEK
- 100% metal-free treatment
- No biological interactions
- High chemical resistance
- Certified biomaterial

AREAS OF APPLICATION

PEEK NATURE is suitable for the production of indirect temporary and permanent dental restorations (EU medical device class IIa):

- Crowns and bridges
- Transversal connectors
- Sublingual clasps
- Frameworks for clasp dentures
- Denture bases
- Bite splints
- Retaining elements
- Telescopic crowns
- Attachments
- Retaining clasps
- Bar constructions

FEATURES and BENEFITS

- Excellent dimensional stability
- Excellent gliding ability
- Excellent abrasion resistance
- Good machinability
- High heat resistance
- Physiologically harmless
- Almost no water absorption
- High chemical resistance
- Break and shatter proof
- Outstanding fracture work and toughness





DENTAL LABORATORY BENEFITS

- 100 % metal-free solution
- Excellent dimensional stability
- Scannable
- Proven biocompatibility
- Can be veneered with C&B acrylics
- Can be veneered with composite materials
- Good adhesive bonding after appropriate treatment
- Ideal for almost all fixed and removable indications
- Bone-like elasticity
- Optimal combination of strength and low weight
- Optimal ratio of rigidity, strength and toughness

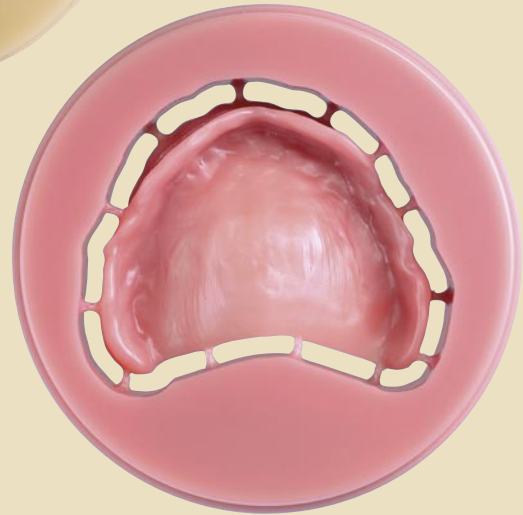
PATIENT BENEFITS

- 100 % PEEK
- 100 % metal-free treatment
- No biological interactions, certified biomaterial
- Low electrical and thermal conductivity
- Acrylate-free
- Especially suitable for allergy sufferers
- Tasteless (no metal taste)
- Excellent strength and low weight ensure a high wearing comfort
- Shock-absorbing properties during chewing
- High resistance to abrasion and fractures

		REF
	Ø 95 mm x 16 mm	1018100
	Ø 95 mm x 20 mm	1018101
	Ø 98.5 mm x 12 mm	1018102
	Ø 98.5 mm x 16 mm	1018103
	Ø 98.5 mm x 20 mm	1018104
	Ø 98.5 mm x 24 mm	1018105
	Ø 98.5 mm x 30 mm	1018106

M-PM[®] DISC

DIGITAL PRECISION
BRILLIANT AESTHETICS



SUBTRACTIVE MANUFACTURING



Biocompatibility tested

M-PM® DISC

BIOCOMPATIBLE, DURABLE, VERSATILE, AESTHETIC

Merz Dental PMMA Discs are industrially made of highly cross-linked filler and fibre free OMP-N® - Organic Modified Polymer-Network - precisely and highly compressed, fulfilling highest technical demands. Due to its high density the material offers excellent milling features even down to very thin wall thicknesses found in the veneering technique. Whether clear, gingival shaded, in 16 V-classic or 4 Bleach shades, M-PM® Discs from Merz Dental offer every user numerous options and applications.

AESTHETIC TRANSLUCENCY EXACT FIT PROVEN BIOCOMPATIBILITY

- Long-term temporary crown & bridge restoration
- Splints for therapeutic restorations of cranio-mandibular disorders and function diagnostics
- Denture bases
- Temporary anterior veneers for aesthetic mould corrections
- Individual patient drilling templates (M-PM® Disc clear)

WIDE RANGE OF SHADES FOR VIRTUALLY ALL PMMA CAD/CAM-SOLUTIONS MADE IN GERMANY



TOOTH SHADES

16 V-Classic shades
A1-D4
translucent

4 Bleach shades
BL1-BL4
translucen

- For long-term temporary crown & bridge restorations even with thin crown margins < 50 µm



CLEAR

transparent / clear
(no colorants)

- Splint therapy, with PMMA acrylic adjustable at anytime
- Lost moulds
- Drilling templates



GINGIVAL

pink
pink 3
L1 (veined)

- Denture bases with highest CAD/CAM manufactured precision
- Relineable with denture acrylics of PMMA basis



CONVINCING FEATURES AND BENEFITS

MATERIAL

The M-PM® Disc ensures safety during the pre-prosthetic and temporary restoration phase through tested biocompatibility with a very low residual monomer of less than $< 1\%$. Thanks to its shock absorption, OMP-N® is especially suitable during the healing time as initial restoration on immediate implants. Of further advantage is its plaque resistance and minimal water absorption for the soft tissue conditioning, so that the later permanent restoration is in harmony with the red-white aesthetic. A positive observational study of the University of Jena approves the wearing time of OMP-N® processed temporaries for up to 36 months.

AESTHETIC

No aesthetic compromises have to be made with the M-PM® Discs during the temporary and long-term restoration. Temporary crowns and bridges milled from translucent shaded M-PM® Discs adapt harmonically to the remaining teeth without any color individualization. The material allows a natural looking - chameleon effect like - light transmission and is therefore preventing aesthetic and psychosocial constraints during the wearing and healing time for the patient.

VERSATILITY

Due to its PMMA-base the precisely milled OMP-N® parts can be added on and relined with any customary PMMA acrylic at any time. This is especially of advantage for the gingival shaded M-PM® Disc. Furthermore durable splints can be processed from the clear M-PM® Disc. As the clear acrylic does burn out fully, casting parts can also be processed.



SUBTRACTIVE MANUFACTURING



EU MEDICAL DEVICE CLASS IIa

M-PM® DISC

DIGITAL PRECISION. BRILLIANT AESTHETIC.

HIGH PERFORMANCE POLYMER
HIGH END QUALITY FROM THE POLYMER
SPECIALIST MADE IN GERMANY

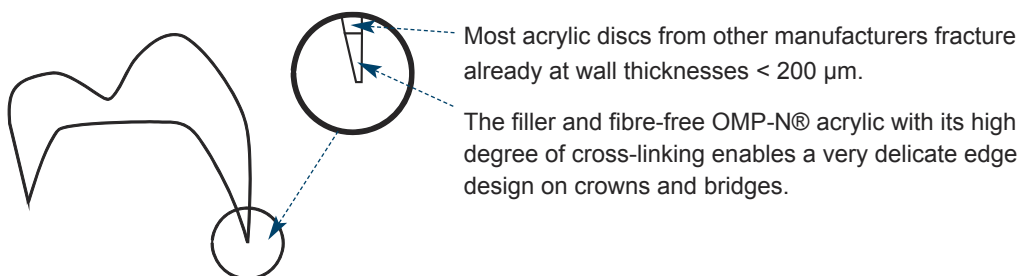
M-PM® Discs are manufactured under highest quality standards. Here, using the latest high pressure polymerization in multi-stage pressure and temperature curves highly cross-linked milling blanks are produced. This ensures optimal mechanical and chemical properties due to high cross-linking of the polymer chains with the highest porosity freedom.

ORGANIC MODIFIED POLYMER NETWORK OMP-N® - FOR MORE QUALITY

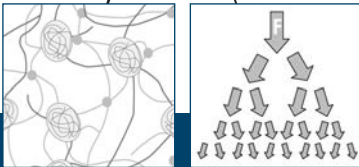
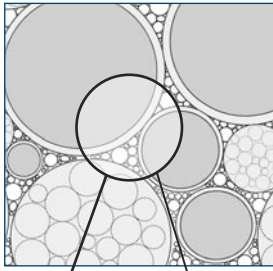
Unfilled high-performance polymers such as OMP-N® transmit light better than ceramics, and allow easy handling and very good polishing with an optimal bonding to all PMMA and MMA-based acrylics.

In the submicroscopic area spatially linked macromolecule structures occupy the spaces between larger polymer beads in the chemical bond. Therefore the material achieves better chemical and mechanical properties. A special tempering process minimises material stresses and the residual monomer content is reduced to below 1%.

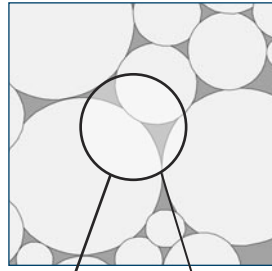
High elasticity, no chipping due to filler and fibre-free formulation. The material absorbs the forces acting on the temporary restoration. Crown and bridge abutments are relieved. OMP-N® has a very good plaque resistant surface compaction after polishing even with conventional polishers, polishing wheels and polishing agents.



OMP-N® Organic Modified Polymer-Network



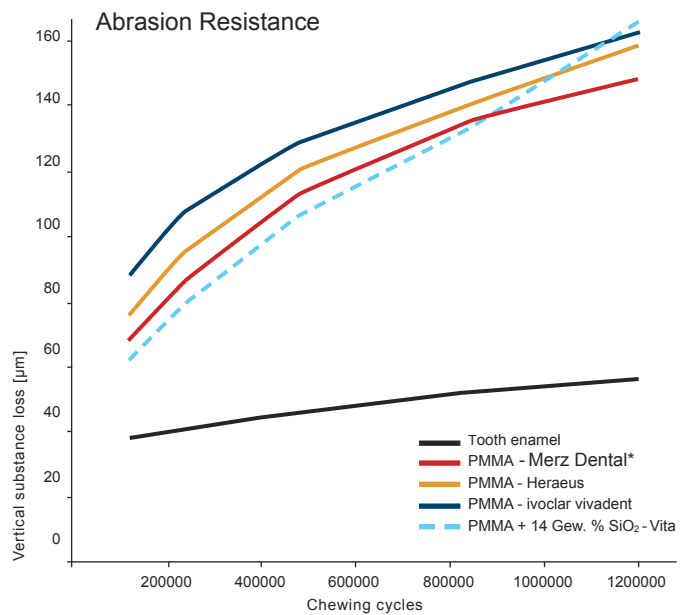
Conventional PMMA simply cross-linked



PREMIUM QUALITY

- Highly cross-linked
- Abrasion resistant
- Tissue friendly
- Plaque resistant
- Chemically stable
- Translucent* and color stable
- Low water absorption
- High bond to PMMA base acrylic
- Temperature resistant
- Easy handling and polishing
- Free form inorganic fillers and fibres
- Resilient and shock absorbing

* V-Classic shades A1-D4 and Bleach shades BL1-BL4



*OMP-N® specially processed interpenetrated network

Graph based on Ghazal et al.: Two-body wear of resin and ceramic denture teeth in comparison to human enamel. Dental Materials 4 (2007) 24, p. 502-507

Properties	Standard	Result
Density	1.19 g/cm ³	EN ISO 1183-1
Water solubility	0.2 µg/mm ³	EN ISO 10477
Flexural strength	91.5 MPa / 96.6 MPa	EN ISO 10477 / EN ISO 20795-1
Absorption	26.5 µg/mm ³	EN ISO 10477
Module of elasticity	2773 MPa	EN ISO 20795-1

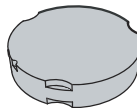
SUBTRACTIVE MANUFACTURING



M-PM® DISC

FOR (ALMOST) EVERY MACHINE THE RIGHT GEOMETRY

PMMA DISC MADE IN GERMANY

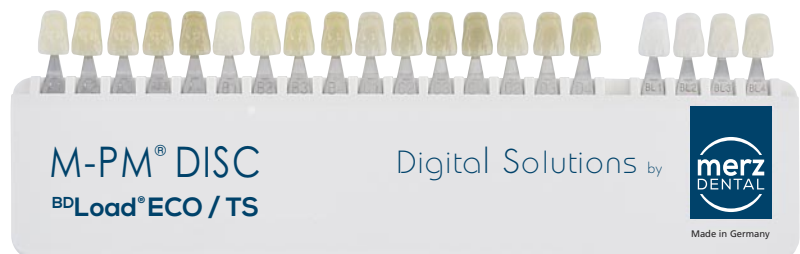


Ø 95 mm










Ø 98.5 mm

▶ 16 V-Classic shades A1-D4	CE 0482	translucent	translucent
▶ 4 Bleach shades BL1-BL4	CE 0482	translucent	translucent
▶ pink, pink3, L1 (veined)	CE 0482	monochrome, 25 mm	monochrome, 25 mm
▶ clear / transparent for bite splints, implant drilling templates, castings	CE 0482	clear	clear



M-PM® Disc Shade Guide (A-D + Bleach)
REF 1019247

Shade	REF	Shade	REF	Shade	REF	Shade	REF
Ø 95 mm x 16 mm clear / transparent without step	1019206	Ø 95 mm x 20 mm without step	A1 1019164 A2 1019165 A3 1019166 A3.5 1019167 A4 1019168	Ø 95 mm x 25 mm without step	A2 1019186 A3 1019187 A3.5 1019188 A4 1019189 pink 1019207	Ø 98.5 mm x 16 mm with step	A1 1019084 A2 1019085 A3 1019086 A3.5 1019087 A4 1019088
			B1 1019169 B2 1019170 B3 1019171 B4 1019172				B1 1019089 B2 1019090 B3 1019091 B4 1019092
suitable for Zirkonzahn® CAM		suitable for Zirkonzahn® CAM	C1 1019173 C2 1019174 C3 1019175 C4 1019176	suitable for Zirkonzahn® CAM			C1 1019093 C2 1019094 C3 1019095 C4 1019096
			D2 1019177 D3 1019178 D4 1019179				D2 1019097 D3 1019098 D4 1019099
			Bleach BL1 1019180 Bleach BL2 1019181 Bleach BL3 1019182 Bleach BL4 1019183				Bleach BL1 1019100 Bleach BL2 1019101 Bleach BL3 1019102 Bleach BL4 1019103
			clear / transparent 1019184				clear / transparent 1019080

XY	Shade	REF	Shade	REF	Shade	REF
Ø 98.5 mm x 20 mm with step	A1 1019104 A2 1019105 A3 1019106 A3.5 1019107 A4 1019108		Ø 98.5 mm x 25 mm with step	A1 1019240 A2 1019236 A3 1019237 A3.5 1019403 A4 1019404	Ø 98.5 mm x 30 mm with step	A1 1019420 A2 1019421 A3 1019422 A3.5 1019423 A4 1019424
	B1 1019109 B2 1019110 B3 1019111 B4 1019112			B1 1019238 B2 1019239 B3 1019407 B4 1019408		B1 1019425 B2 1019426 B3 1019427 B4 1019428
	C1 1019113 C2 1019114 C3 1019115 C4 1019116			C1 1019409 C2 1019410 C3 1019411 C4 1019412		C1 1019429 C2 1019430 C3 1019431 C4 1019432
	D2 1019117 D3 1019118 D4 1019119			D2 1019413 D3 1019414 D4 1019415		D2 1019433 D3 1019434 D4 1019435
	Bleach BL1 1019120 Bleach BL2 1019121 Bleach BL3 1019122 Bleach BL4 1019123			Bleach BL1 1019416 Bleach BL2 1019417 Bleach BL3 1019418 Bleach BL4 1019419		Bleach BL1 1019436 Bleach BL2 1019437 Bleach BL3 1019438 Bleach BL4 1019439
	clear / transparent 1019081			pink 1019208 pink 3 1019246 L1 (veined) 1019850		pink 1019278 pink 3 1019279 L1 (veined) 1019851

BULK PACKS

	Shade	REF
6 pcs. Ø 98.5 mm x 16 mm	clear / transparent	1019276
5 pcs. Ø 98.5 mm x 20 mm	clear / transparent	1019275
4 pcs. Ø 98.5 mm x 25 mm	pink	1019277



M-PM[®] crystal

A CLEAR SOLUTION



SUBTRACTIVE MANUFACTURING



EU MEDICAL DEVICE CLASS IIa

M-PM® crystal

A CLEAR SOLUTION FOR PRICE-CONSCIOUS PROFESSIONALS

Die M-PM® crystal consists of a high-purity thermoelastic PMMA, which is made according to the high quality standards in an industrial polymerization and manufacturing process. The M-PM® crystal is the economical alternative for splint technology. The crystal clear, color stable material is convincing by its homogeneity, low plaque adhesion and low water absorption. The M-PM® crystal can be adjusted and repaired with PMMA acrylics.

AREAS OF APPLICATION

- Occlusal splints
- Drilling templates for navigated implantation
- "Lost moulds" for casting technology

FEATURES and BENEFITS

- Crystal clear, color stable
- Certified biocompatibility
- Free from inorganic and organic peroxides such as B. dibenzoyl peroxide
- Low residual monomer content: < 1%
- High homogeneity
- Low plaque adhesion
- Low water absorption
- Can be extended and repaired with PMMA
- Economical alternative to the bite splint technology
- High-molecular, cross-linked PMMA

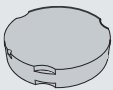

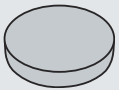

PHYSICAL SPECIFICATIONS

Properties	Standard	Result
Flexural strength	EN ISO 10477	156 ± 6 MPa
Module of elasticity	EN ISO 20795-1	3000 ± 100 MPa
Glass transition temperature	ISO 11357	121 °C
Vickers hardness	EN ISO 6507-1	23.2 ± 0.3 HV 0.2
Absorption	EN ISO 20795-1	< 32 µg / mm ³
Water solubility	EN ISO 20795-1	< 1.6 µg / mm ³



Available in Bulk Packs



		REF
	Ø 95 mm x 14 mm	1019262
	Ø 95 mm x 16 mm	1019254
	Ø 95 mm x 20 mm	1019255
	Ø 95 mm x 25 mm	1019256
	Ø 95 mm x 30 mm	1019257
	Ø 98.5 mm x 14 mm	1019263
	Ø 98.5 mm x 16 mm	1019250
	Ø 98.5 mm x 20 mm	1019251
	Ø 98.5 mm x 25 mm	1019252
	Ø 98.5 mm x 30 mm	1019253
	Ø 100 mm x 14 mm	1019264
	Ø 100 mm x 16 mm	1019258
	Ø 100 mm x 20 mm	1019259
	Ø 100 mm x 25 mm	1019260
	Ø 100 mm x 30 mm	1019261
	Ø 120 mm x 16 mm	1019270
	Ø 120 mm x 20 mm	1019271
BULK PACKS		
12 pcs.	Ø 95 mm x 16 mm	1019265
10 pcs.	Ø 95 mm x 20 mm	1019266
12 pcs.	Ø 98.5 mm x 16 mm	1019268
10 pcs.	Ø 98.5 mm x 20 mm	1019269

artBloc[®] Temp

for CEREC[®] and inLab[®]

PMMA-Block





artBloc® Temp for CEREC® and inLab®

TOOTH SHADED PMMA BLOCK FOR THE LONG-TERM TEMPORARY AND PRE-PROSTHETICS RESTORATION OF ANTERIOR AND POSTERIOR REGIONS

artBloc® Temp is a unique monochrome tooth-colored block made of highly cross-linked interpenetrated OMP®-N (Organic Modified Polymer Network). Without inorganic fillers, this material provides high plaque resistance and EN ISO 10477 compliant flexural strength of more than 90 MPa. Furthermore this material has been awarded with best test results regarding breaking strength values in the group of millable, tooth-shaded temporary acrylic blocks for CEREC® and inLab® amounting to 335 N and guarantees process reliability compared to conventional temporary chairside C+B materials.

PRE-PROSTHETICS TREATMENT AND SOFT-TISSUE MANAGEMENT

In the context of a preprosthetic treatment plan, the artBloc® Temp is intended for temporary restorations, until the requirements for a final prosthetic solution are established with clinical and prosthetically acceptable parameters. Due to its plaque resistance, artBloc® Temp is the optimum treatment regarding soft-tissue management. It can also be used for re-establishing the occlusal support field for therapeutic restorations when correcting temporomandibular disorders.

AREAS OF APPLICATION

- Single and partial restorations
- 4-unit bridges
- Immediate implant restorations
- Long-term temporary as well as semipermanent pre-prosthetic restorations
- Wearing time: up to 3 years

FEATURES and BENEFITS

- Block dimensions 15.5 x 19 x 39 mm
- Fibre-free and without inorganic fillers
- Tissue-friendly and plaque resistant
- Homogeneity and high cross-linked due to most modern industrial manufacturing process, made in Germany
- Extreme flexural strength
- Shock-absorbent, particularly for initial implant restorations
- Color stable with high aesthetics
- High temperature and form stability
- Outstanding polishing characteristics using standard tools
- Multiple resettability on the post
- All provisional cements (eugenol-free) can be used for cementing

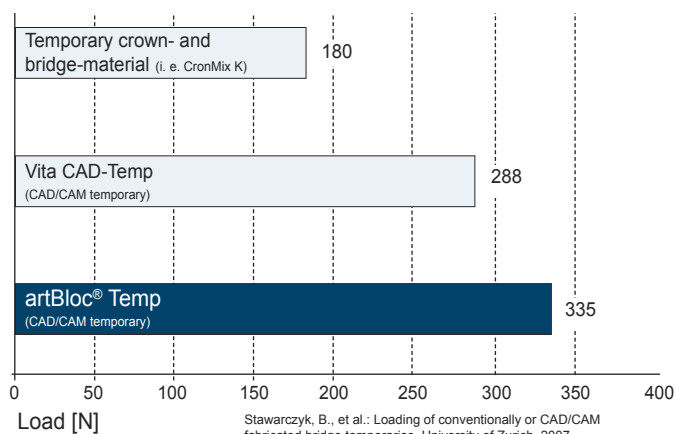
TECHNICAL DATA

For software and technical requirements, milling configuration etc. please visit www.merz-dental.de

PHYSICAL SPECIFICATIONS

Flexural strength	93 MPa according EN ISO 10477
Module of elasticity	2680 MPa according EN ISO 20795-1
Absorption	Complies with EN ISO 10477 crown and bridge resins
Water solubility	Complies with EN ISO 10477 crown and bridge resins
Shade stability	Complies with EN ISO 10477 crown and bridge resins

LOADING OF THREE-UNIT TEMPORARIES



Block dimensions: 15.5 x 19.0 x 39.0 mm

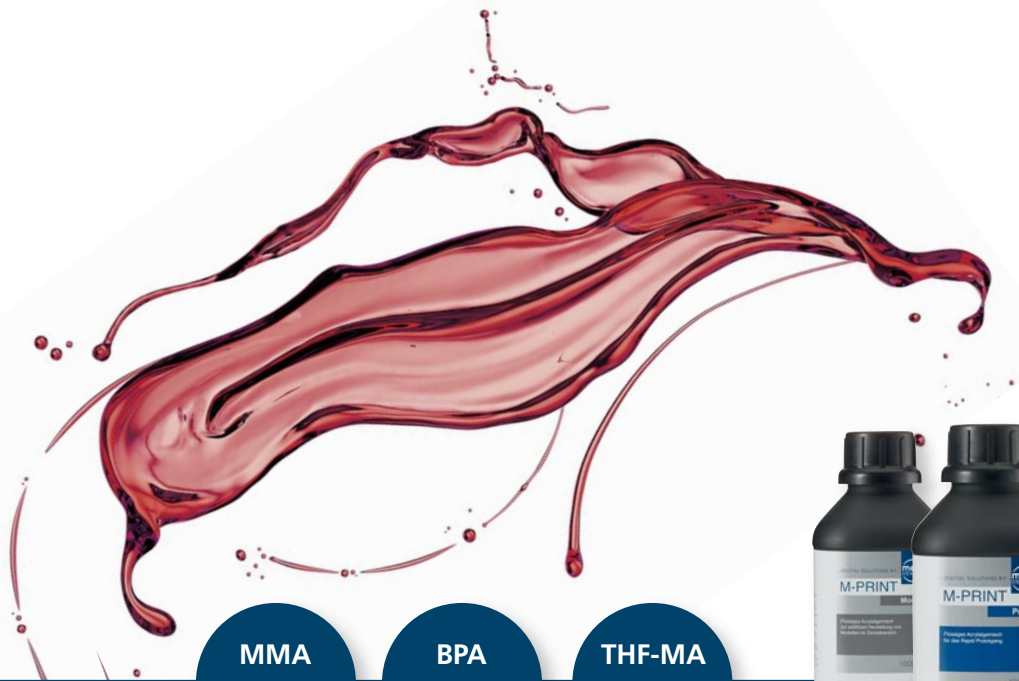
Shade / Content	A1 REF	A2 REF	A3 REF	A3.5 REF	A4 REF	B1 REF	B2 REF	B3 REF	B4 REF
2 pcs. monochrome	1017721	1017722	1017723	1017724	1017725	1017726	1017727	1017728	1017729
monochrome translucent	1017670	1017671	1017672	1017673	1017674	1017675	1017676	1017677	1017678
10 pcs. monochrome	1017700	1017701	1017702	1017703	1017704	1017705	1017706	1017707	1017708
monochrome translucent	1017650	1017651	1017652	1017653	1017654	1017655	1017656	1017657	1017658

Shade / Content	C1 REF	C2 REF	C3 REF	C4 REF	D2 REF	D3 REF	D4 REF
2 pcs. monochrome	1017730	1017731	1017732	1017733	1017735	1017736	1017737
monochrome translucent	1017679	1017680	1017681	1017682	1017683	1017684	1017685
10 pcs. monochrome	1017709	1017710	1017711	1017712	1017714	1017715	1017716
monochrome translucent	1017659	1017660	1017661	1017662	1017663	1017664	1017665

Shade / Content	BL1 REF	BL2 REF	BL3 REF	BL4 REF
2 pcs. monochrome	1017738	1017739	1017740	1017741
monochrome translucent	1017686	1017687	1017688	1017689
10 pcs. monochrome	1017717	1017718	1017719	1017720
monochrome translucent	1017666	1017667	1017668	1017669

M-PRINT

ADDITIVE MANUFACTURING



3D LIQUIDS

MMA

FREE

BPA

FREE

THF-MA

FREE

READY 2 PRINT

- ✓ **Free of fillers and suspended matter**
for maximum precision and accuracy of fit
- ✓ **Free of color pigments**
for maximum sedimentation stability
- ✓ **Homogeneous formulation**
for maximum stability and fracture toughness
- ✓ **No deposit during the entire production time**
No shaking necessary before use!





Without
fillers &
pigments



Finest
structures

Burns-out



M-PRINT Proto

RAPID-PROTOTYPING

Light-curing acrylate-based premium resin for the additive manufacturing of objects of all kinds.

AREAS OF APPLICATION

- 3D printed objects of all kinds

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Printing from 25 µm to 100 µm layer thickness
- High shape and edge stability for best results of filigree structures and objects
- High dimensional stability and warp resistance for precise, warp-free objects
- Maximum surface hardness for mechanical stress without changes in shape
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

- 1000 g, color clear REF 1084025
- 1000 g, color cobalt-blue REF 1084026

M-PRINT Cast

CAST OBJECTS

Burn-out, light-curing acrylate-based premium resin for the additive manufacturing of objects in the press and model casting technique.

AREAS OF APPLICATION

- Cast objects of all kinds
- Applicable in the conventional as well as in the speed casting process for press ceramics e.g. veneers, inlays or onlays

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Burns-out without residue (< 0.1%), even with large volume parts
- Warp-free, even with large-volume (voluminous) objects
- Matched to phosphate-bonded investment materials
- High strength, shape and edge stability, best drawing accuracy for filigree structures
- The finest structures thanks to layer thicknesses of up to 25 µm - precise reproduction with the finest surface structure
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

- 1000 g, color purple REF 1084010



Without fillers & pigments

High Precision



M-PRINT Model

PRODUCTION OF MODELS

Opaque, light- and moisture-stable, light-curing 3D printing resin for the production of very precise, true-to-detail master, stump and / or functional models with finest and smooth surface structure.

AREAS OF APPLICATION

- Models
- Model stumps
- Models for splints and functional models

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Very dimensionally stable, precisely grindable preparation lines optimally visible through opacity
- High construction precision - for an excellent fit of model stumps
- High efficiency - thanks to the low-viscosity setting of the resin for lower material consumption and short post-processing
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

- | | |
|----------------------------|-------------|
| ■ 1000 g, color ash-gray | REF 1084017 |
| ■ 1000 g, color taupe-gray | REF 1084018 |
| ■ 1000 g, color sand | REF 1084020 |



Medical Device Class I

Layer thicknesses up to 150 µm



M-PRINT Tray

INDIVIDUAL IMPRESSION TRAYS

Light-curing, bio-compatible 3D printing resin for the production of individual functional trays and impression trays, bite registration, transfer keys and base plates.

AREAS OF APPLICATION

- Individual functional trays and impression trays
- Bite registrations
- Registrature
- Transfer keys
- Base plates

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Biocompatibility tested according to EN ISO 10993-1
- High dimensional stability and warp resistance for exact, distortion-free impressions
- Odorless and tasteless
- Retention holes can be planned in advance in the CAD modeling
- Effective, as it is optimised for high printing speeds and high layer thicknesses of up to 150 µm
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

- | | |
|--------------------------|-------------|
| ■ 1000 g, color aqua | REF 1084035 |
| ■ 1000 g, color hot-pink | REF 1084036 |





coming soon

Medical Device Class I

Matched to the production of digital dentures with the Baltic Denture System



Medical Device Class I

Without fillers & pigments



M-PRINT TryIn

TRY-INS

Light-curing, bio-compatible 3D printing resin for the production of try-ins for the intraoral check-up of digitally designed dentures..

AREAS OF APPLICATION

- Try-in for removable full and partial dentures
- Correction impression and bite registration

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Biocompatibility tested according to EN ISO 10993-1
- For realistic assessment of fit, phonetics and aesthetics prior to final construction
- Suitable for checking bite registration and occlusion functionality
- Available in the colors ivory and gum for monochrome try-ins or aesthetic bicolor
- Odorless and tasteless
- High precision - for excellent fit of denture base and arch
- Designed for tray-based photopolymerization at 385 nm
- Precisely grindable for patient-specific adjustments by the dentist
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

- 500 g, color ivory REF 1084046
- 1000 g, color ivory REF 1084047
- 500 g, color gum REF 1084048
- 1000 g, color gum REF 1084049



M-PRINT Surgical guide

DRILLING TEMPLATES

Biocompatible, liquid, light-curing acrylate-based premium resin especially tailored for surgical drilling templates for exact contouring in the area of drill sleeves.

AREAS OF APPLICATION

- Drilling templates for the surgically precise and safe insertion of dental implants
- Positioning templates

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Biocompatibility tested according to EN ISO 10993-1
- Dimensionally stable, for the exact positioning and fixation of the drill sleeves, for safe insertion in the patient
- Very good precision and a perfect fit for the respective bone and soft tissue conditions
- Warp resistant, for the surgically precise and safe insertion of dental implants
- Color ice blue for visual control in the work area
- Easily polishable
- Mucous membrane friendly
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

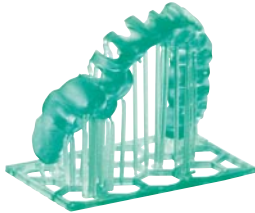
- 1000 g, color ice-blue REF 1084040





Medical
Device Class
I

Without
fillers &
pigments



Medical
Device Class
IIa

Unlimited
wearing time



M-PRINT Surgical guide HT

STERILISABLE DRILLING TEMPLATES

Biocompatible, liquid, light-curing acrylate-based premium resin especially tailored for sterilisable surgical drilling templates for exact contouring in the area of drill sleeves.

AREAS OF APPLICATION

- Drilling templates for the surgically precise and safe insertion of dental implants
- Positioning templates

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Biocompatibility tested according to EN ISO 10993-1
- Dimensionally stable, for the exact positioning and fixation of the drill sleeves, for safe insertion in the patient
- Very good precision and a perfect fit for the respective bone and soft tissue conditions
- Warp resistant, for the surgically precise and safe insertion of dental implants
- Color ice blue for visual control in the work area
- High rigidity, low deformation due to a very high modulus of elasticity
- Easily polishable
- Mucous membrane friendly
- Steam sterilisable up to 273.2 °F (134 °C)
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

- 1000 g, color spring-green REF 1084041



M-PRINT Splint

OCCLUSAL SPLINTS AND BITE SPLINTS

Biocompatible, light-curing premium acrylate-based resin for the additive manufacturing of occlusal / bite splints of all kinds.

AREAS OF APPLICATION

- Occlusal splints and bite splints of any kind
- Bleaching trays

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Biocompatibility tested according to EN ISO 10993-1
- Medical Device Class IIa - can permanently remain in the mouth
- High precision for a perfect fit
- Color stable, permanently clear
- Dimensionally stable
- Easily polishable
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

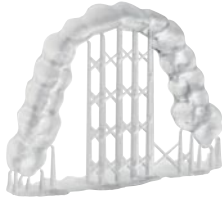
- 1000 g, color clear REF 1084050





Medical Device Class IIa

Unlimited wearing time



M-PRINT Splint flex

FLEXIBLE OCCLUSAL SPLINTS AND BITE SPLINTS

Biocompatible, light-curing premium acrylate-based resin for the additive manufacturing of flexible occlusal splints / bite splints of all kinds.

AREAS OF APPLICATION

- Flexible occlusal splints and bite splints of any kind
- Bleaching trays

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Biocompatibility tested according to EN ISO 10993-1
- Medical Device Class IIa - can permanently remain in the mouth
- Increased wearing comfort thanks to pleasant flexibility
- High precision for a perfect fit
- Color stable, permanently clear
- Dimensionally stable
- Easily polishable
- Designed for tray-based photopolymerization at 385 nm

DELIVERY FORM / COLOR

- 1000 g, color clear REF 1084051





M-PRINT	Areas of application	MDC*	Color	Viscosity	Flexural strength	Module of elasticity	Glass transition	Vickers hardness	Wave-length	Layer thickness
 Proto	<ul style="list-style-type: none"> • 3D printed objects of all kinds 	–	<ul style="list-style-type: none"> • clear • cobalt-blue 	920 ± 100 mPa·s	108 ± 4 MPa	3000 ± 100 MPa	93 °C 1 HV0,2	20 ±	385 nm	25 µm 50 µm 100 µm
 Cast	<ul style="list-style-type: none"> • Cast objects of all kinds 	–	<ul style="list-style-type: none"> • purple 	1000 ± 200 mPa·s	104 ± 3 MPa	2900 ± 200 MPa	86 °C	–	385 nm	25 µm 50 µm 100 µm
 Model	<ul style="list-style-type: none"> • Models • Model stumps • Models for splints and functional models 	–	<ul style="list-style-type: none"> • ash-gray • taupe-gray • sand 	950 ± 100 mPa·s	68 ± 2 MPa	1600 ± 100 MPa	–	–	385 nm	25 µm 50 µm 100 µm
 Tray	<ul style="list-style-type: none"> • Individual functional trays and impression trays • Bite registrations • Transfer keys • Base plates 	I	<ul style="list-style-type: none"> • aqua • hot-pink 	900 ± 100 mPa·s	116 ± 10 MPa	2900 ± 300 MPa	91 °C	–	385 nm	50 µm 100 µm 150 µm
 TryIn	<ul style="list-style-type: none"> • Try-in • Correction impression • Bite registration 	I	<ul style="list-style-type: none"> • ivory** • gum** 						385 nm	50 µm 100 µm
 Surgical guide	<ul style="list-style-type: none"> • Drilling templates • Positioning templates 	I	<ul style="list-style-type: none"> • ice-blue 	830 ± 100 mPa·s	100 ± 8 MPa	2600 ± 200 MPa	96 °C	–	385 nm	25 µm 50 µm 100 µm
 Surgical guide HT	<ul style="list-style-type: none"> • Sterilisable drilling templates • Sterilisable positioning templates 	I	<ul style="list-style-type: none"> • spring-green 	650 ± 100 mPa·s	130 ± 5 MPa	3150 ± 130 MPa	–	–	385 nm	25 µm 50 µm 100 µm
 Splint	<ul style="list-style-type: none"> • Occlusal / bite splints • Bleaching trays 	Ila	<ul style="list-style-type: none"> • clear 	825 ± 100 mPa·s	70 ± 6 MPa	1800 ± 200 MPa	93 °C	20 ± 1 HV0,2	385 nm	25 µm 50 µm 100 µm
 Splint flex	<ul style="list-style-type: none"> • Flexible occlusal / bite splints • Bleaching trays 	Ila	<ul style="list-style-type: none"> • clear 	700 ± 100 mPa·s	–	–	–	–	385 nm.	25 µm 50 µm 100 µm

* Medical Device Class

**planned

PRINTER COMPATIBILITY OVERVIEW



M-PRINT 3D printing liquids are generally compatible with DLP printers with a wavelength of 385 nm. Print parameters are available for the following printers.

Updated overview available at www.merz-dental.com

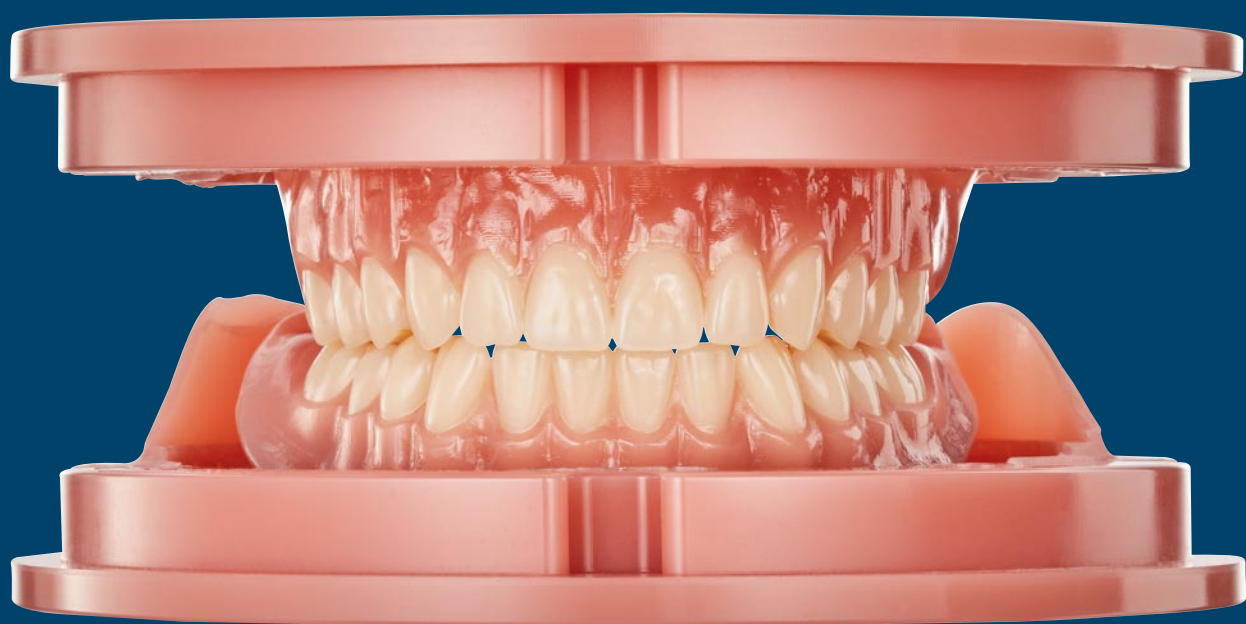
EU Medical Device Class				 Nexa3D XiP		 Carima Carima IMD		 W2P SolFlex / SolLab		 VOCO SolFlex 170 / 350 / 650		 Rapid Shape D20+ / D30+ / D40+		 Asiga Pico / PRO / MAX / PRO 4 K		 Ackuretta FreeShape 120		 DEKEMA trix print²	
M-PRINT		REF																	
TECHNICAL RESINS	Proto	clear		1084025	●	✓	✓	✓	✓	●	✓	✓	✓	✓	✓	✓	✓		
		cobalt-blue		1084026	●	✓	✓	✓	✓	●	✓	✓	✓	✓	✓	✓	✓	✓	
	Cast	purple		1084010	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Model	ash-gray		1084017	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	taupe-gray			1084018	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	sand			1084020	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MEDICAL RESINS	I Tray	aqua		1084035	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		hot-pink		1084036	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	I Surgical guide	ice-blue		1084040	●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Surgical guide HT	spring-green		1084041	●	✓	✓	✓	✓	●	✓	✓	✓	✓	✓	✓	✓	
	IIa Splint	clear		1084050	●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		IIa Splint flex	clear		1084051	●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

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Baltic Denture System

DIGITAL SOLUTION
FOR DENTURES



BALTIC DENTURE SYSTEM



Baltic Denture System

Digital solution for dentures

DIGITAL DENTURE - 100 % Your Way

- Digital production of full dentures in an innovative way
- Efficiency potential for practice and laboratory
- Digital work preparation for more precise results, process reliability and more efficiency

IT'S UP TO YOU!

The conventional manufacturing process for a full denture is very complex and time-consuming. Merz Dental's decades of experience in the development of teeth are concentrated in the Baltic Denture System. This process is reduced to 2 patient appointments with less manual work thanks to an optimised workflow.

YOUR BENEFIT

- High process and manufacturing reliability through predictable results
- Efficient and economic through optimised processes
- Time saving through reduction of process steps and semi-automated processes
- Reproducible result due to the presence of digital information
- High patient satisfaction



The entry into the digital workflow is very flexible with the Baltic Denture System:



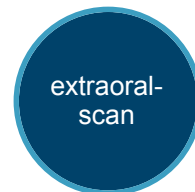
Impression with the old denture



Conventional impression



Impression with the **BDKEY® Set**



SCAN

DESIGN

MANUFACTURING



BDLoad®

MILLING BLANK WITH INTEGRATED OCCLUSION CONCEPT

AREAS OF APPLICATION

- Standardized set-up from the ^{BD}Creator® PLUS
- Polymerised set-up of the teeth in lingualized occlusion
- Optional software-based individual anterior tooth set-up

FEATURES and BENEFITS

- Fast production, only one milling process
- No glueing-in of teeth or rows of teeth
- No interdental closing
- No model fabrication necessary
- No manual grinding required
- No polymerization shrinkage
- Residual monomer content below 1%, reduced allergenic potential
- Highest bond quality between tooth and denture base material
- Repairable and relineable
- Very low plaque affinity
- Less pressure points thanks to excellent fit
- Low water absorption due to very high material density
- Odorless and tasteless

DELIVERY FORM

- Sizes: S, M, L
- Jaw widths: narrow, medium, wide
- Tooth set-up: 6-6 + 7-7
optional individual anterior tooth set-up
- Tooth shades: 16 V-shades + 4 Bleach shades
- Denture base shades: pink + dark pink
- Denture base material: highly cross-linked PMMA + High Impact

BALTIC DENTURE SYSTEM



Fully adjustable virtual articulator

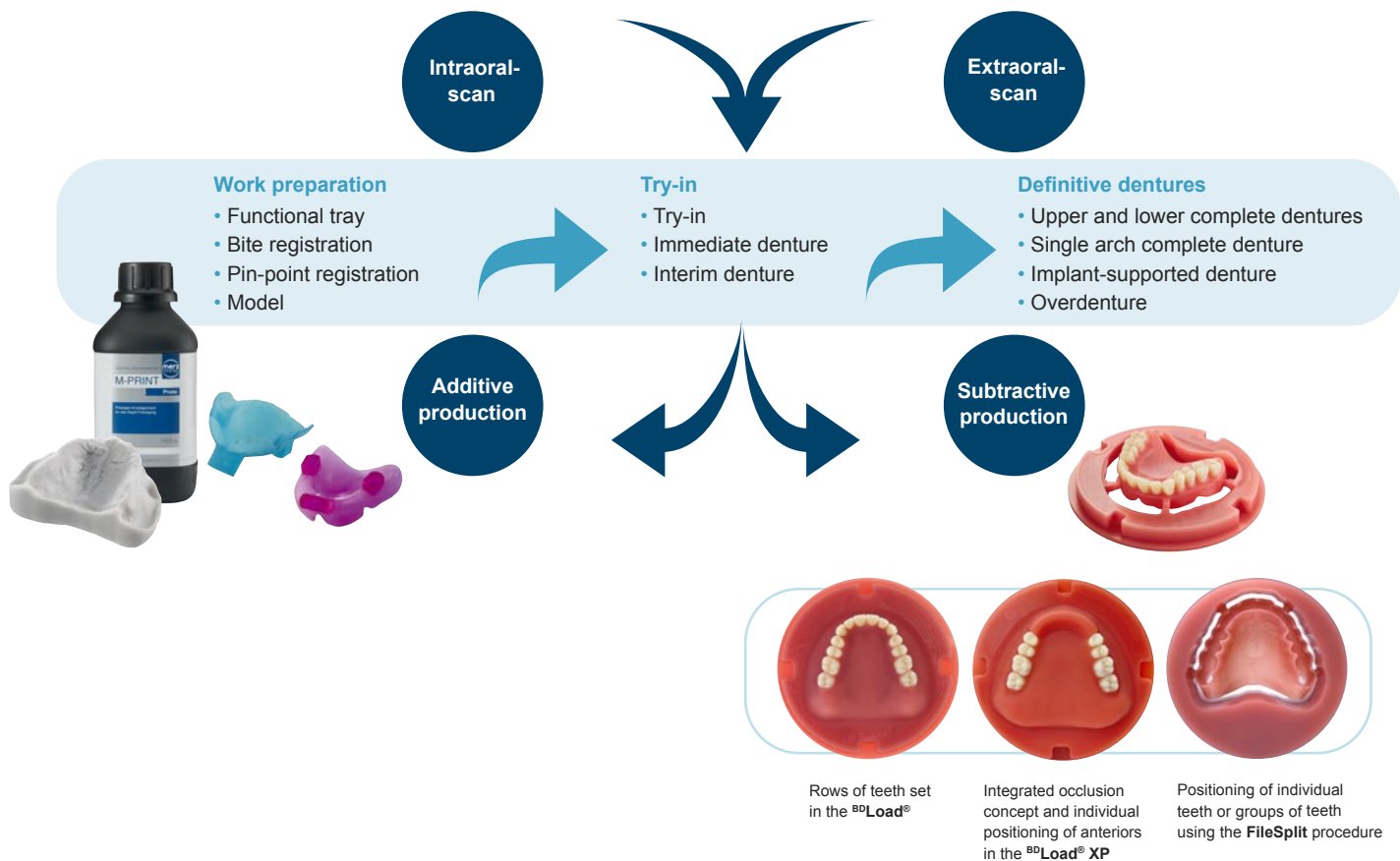
BDCreator® PLUS

One software

- All applications for removable full dentures in one software
- No interruption of the workflow by third-party software
- Including analyses, cutting functions and hole closures
- Open production: Printing or milling in ^{BD}Load®, ^{BD}Load® XP, via FileSplit tooth arch and base or pockets

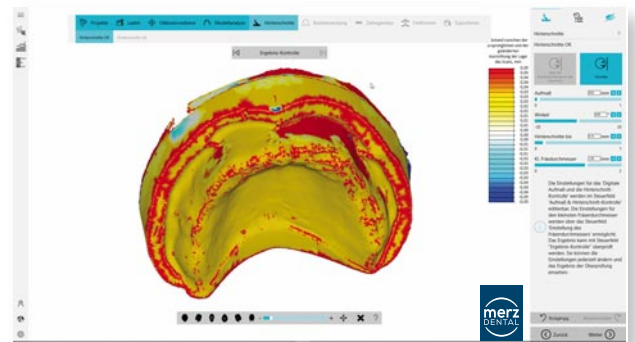
All indications

- Full dentures of all Angle classes (I-III)
- Unimaxillary (single) dentures
- Overdenture via attachment
- Full immediate and interim dentures
- Efficient planning in ^{BD}Load® or individualization through digital repositioning of rows of teeth or single teeth





Occlusal correction



Mesh analysis

The
BD Creator® PLUS
guides you through the
process, regardless
of your choice.

All benefits at a glance:

Design full denture

Design of single arch complete dentures

Occlusal correction

Virtual articulator

Design full interim and immediate dentures, overdentures

Design individual bite registrations incl. offset option

Design individual trays incl. offset option

Design pin-point registrations (Gnathometer)

Matching tool for scan-data

Editing of STL-files

Mesh editing and analysis

Model analysis

Undercut control

Undercut adjustment, relief zones

Add, edit and/or remove material, smoothing function

Online help

Further additional functions for an optimal design



www.baltic-denture-system.com

BD Creator® PLUS brochure
REF 1092168



