merz DENTAL



# CATALOGUE









## Merz Dental

### 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 cooperation 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.

## Services

www.merz-dental.com

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

Further information



# Contents


## TEETH / VENEERS

- Teeth 4
- CBI®-System 8
- Veneers 32
- Tooth cabinets 36
- Living mould guide 38
- Accessories 39
- T*i*F® - Total prosthetics in Function 40
- artConcept® *PLUS*: Veneering system 44

## ACRYLICS

- Denture base acrylics 48
- PCS: Prosthetics Color System 58

## AUXILIARY MATERIALS

- Set-up wax 60
- Alginate separating solution 61
- Precision gel 61
- Swiss Jet flask 62
- PremEco® Line pouring flask 63
- Thermoplastic resin BDImpress 64

## COLOR AND MICRO-LAYERING TECHNIQUE

- mp ILLUSION 66

## CAD/CAM

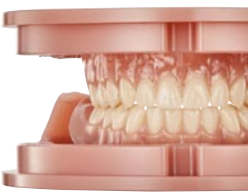
- WAX 76
- PEEK 80
- PMMA 92

## 3D LIQUIDS

- M-Print 108
- 3D model isolation 112

## DIGITAL DENTURE

Baltic Denture System 118

**Baltic Denture System**
DIGITAL SOLUTION FOR DENTURES



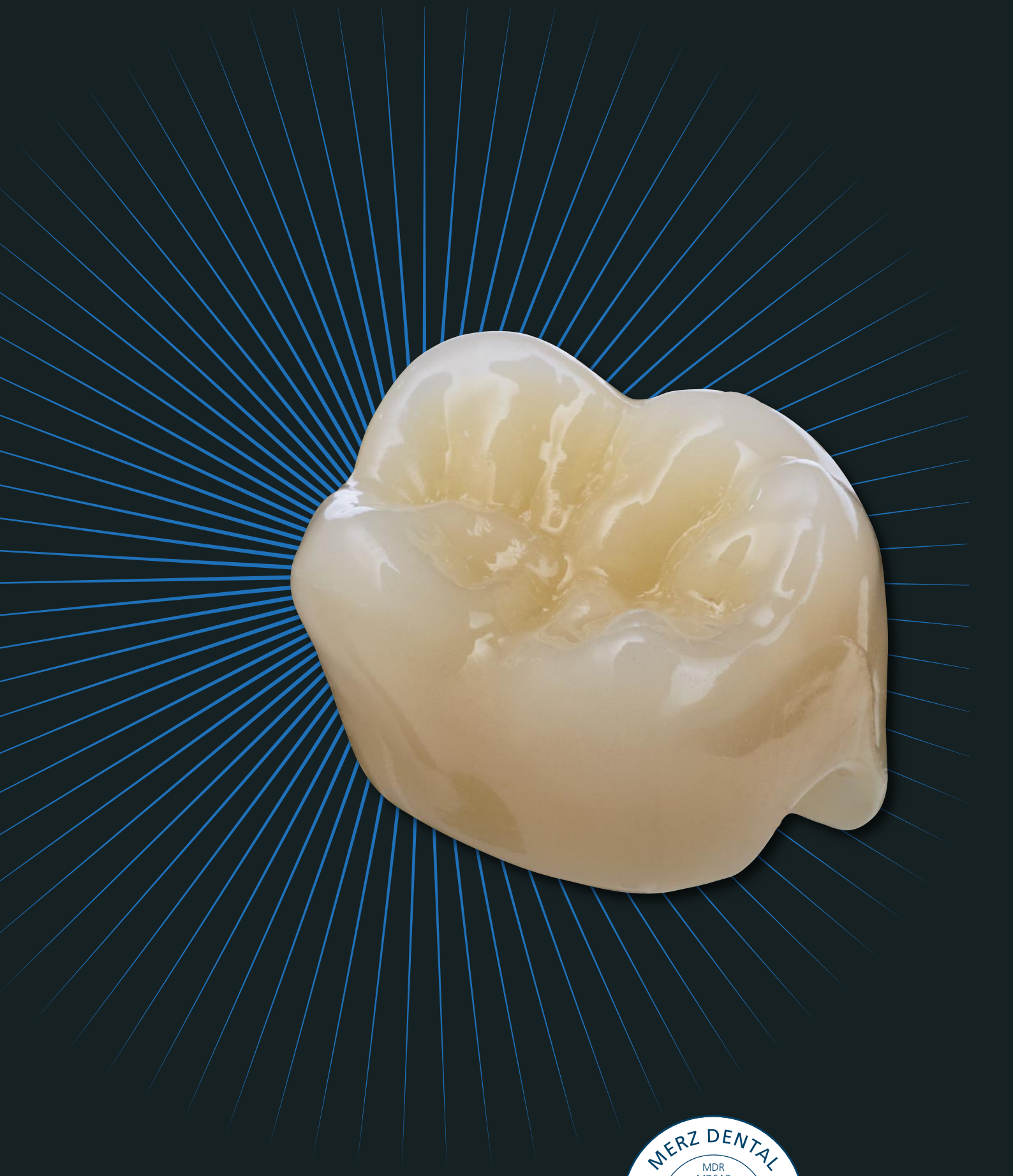
M-PRINT 3D LIQUIDS

# Teeth



★ LIFELIKE MOULDS

★ HIGH END QUALITY



★ 100 % MADE IN GERMANY

MERZ DENTAL
MDR
MDSAP
High Quality
EN ISO 13485
100 % MADE IN GERMANY



The modern Art of teeth

## ANTERIORS




### integral®

Fully anatomical, juvenile

5 layers

10
11 CBI®




### artegral® life

Fully anatomical

5 layers

20
13 CBI®




### Polystar® Selection EDITION

Semi anatomical

4 layers

21
9

CBI®




### Polystar® HK

Semi anatomical

3 layers

30
15

CE 0482

## POSTERIORS



### integral®



Fully anatomical, juvenile

4 layers 30° PSG® Preventive Shift Groove



L-XS

- 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



XL-XS

- 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



XL-S



Polystar® Selection EDITION

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



Polystar® Selection EDITION 2

### Polystar® HK



Semi anatomical

3 layers 15°



9
9

- Fully balanced occlusion

### DeltaForm®

### DeltaForm® HD



Semi anatomical, perfect for lingualized occlusion

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



XL-XS

- 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.

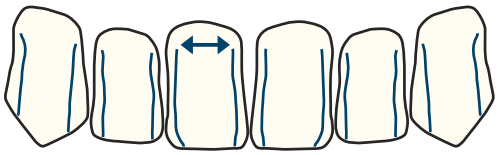
Based on the research results measuring anterior teeth on fully dentulous patients by Prof. Dr. Siebert (Free University of Berlin, now Charité), Merz Dental developed an innovative and recognised mould terminology, the patented CBI®-System.

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.

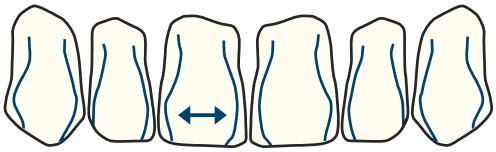


## The CBI® System

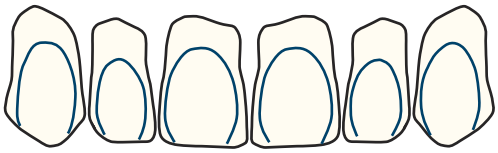
**C-mould**
cervical emphasized
striking, firm, masculine



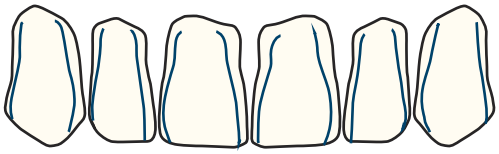
**B-mould**
body emphasized
harmonious, neutral



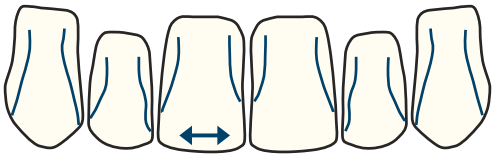
**BO-mould**



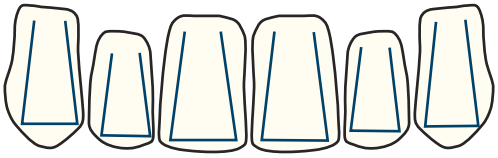
**BI-mould**



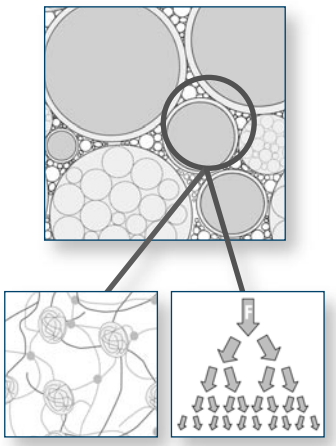
**I-mould**
incisal emphasized
grace, elegance, feminine



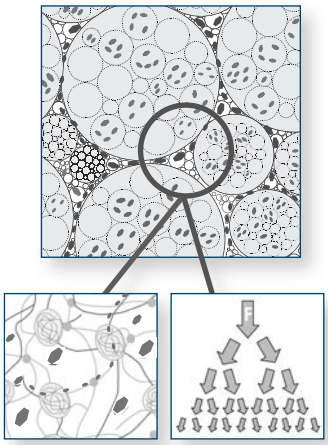
**IT-mould**



# THE OPTIMUM DENTAL MATERIAL FOR EVERY CASE



Proven biocompatibility OMP-N® and HMP-N®



Inorganic fillers

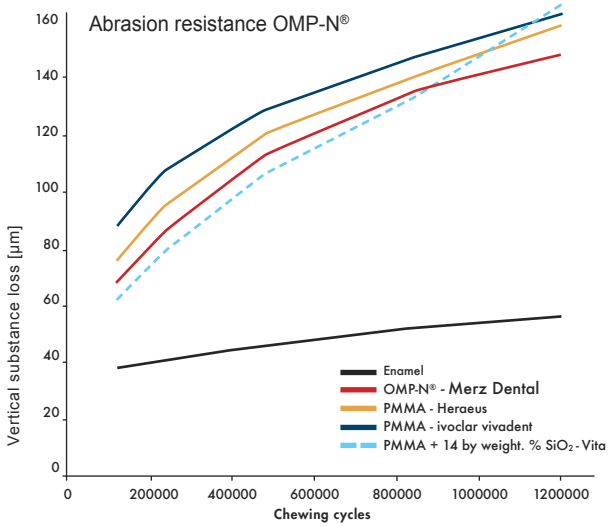
## OMP-N®

**Organic Modified Polymer-Network**

Branched 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.

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.

- Highly branched, 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




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

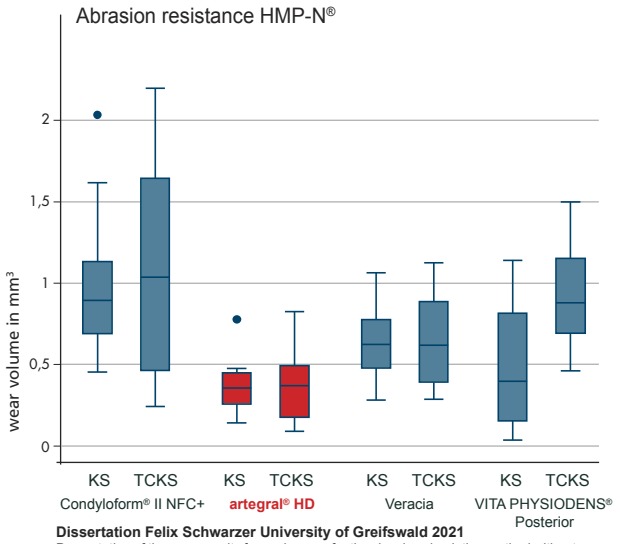
## HMP-N®

**Highly Modified Polymer-Network**

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

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

- 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




**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.


CERTIFICATE

Biocompatibility Test

Testmaterial: HMP-N

Manufacturer: Merz Dental GmbH
Eetzweg 20, 24321 Lütjenburg, Germany

Studies performed: The following studies were performed of the product HMP-N, according to ISO 10993-1:

CYTOTOXICITY (LABORATORY of PHARMACOLOGY and TOXICOLOGY, LPT Report No. 25966 *)
SENSITISATION (LABORATORY of PHARMACOLOGY and TOXICOLOGY, LPT Report No. 25930 *)
CHORIOALLANTOIC MEMBRANE ASSAY
(BSL BIOSERVICE No. 102718 B)

Results: The product did not show any adverse effect in the studies performed.

* BSL BIOSERVICE is not responsible for the content of the report

BSL BIOSERVICE Scientific Laboratories GmbH
Behringstraße 6/8
D-82152 Planegg

Dr. Sandra Schmid
Biological Safety testing
Date: 27 January 2011


CERTIFICATE

Biocompatibility Test

Testmaterial: OMP-N

Manufacturer: Merz Dental GmbH
Eetzweg 20, 24321 Lütjenburg, Germany

Studies performed: The following studies were performed of the product OMP-N, according to ISO 10993-1:

CYTOTOXICITY (LABORATORY of PHARMACOLOGY and TOXICOLOGY, LPT Report No. 25965 *)
SENSITISATION (LABORATORY of PHARMACOLOGY and TOXICOLOGY, LPT Report No. 25929 *)
CHORIOALLANTOIC MEMBRANE ASSAY
(BSL BIOSERVICE No. 102718 A)

Results: The product did not show any adverse effect in the studies performed.

* BSL BIOSERVICE is not responsible for the content of the report

BSL BIOSERVICE Scientific Laboratories GmbH
Behringstraße 6/8
D-82152 Planegg

Dr. Sandra Schmid
Biological Safety testing
Date: 27 January 2011

Proven biocompatibility
OMP-N® and HMP-N®

# High End Quality Made in Germany

## INTELLIGENT POLYMER WITH INNOVATIVE HIGH DENSITY

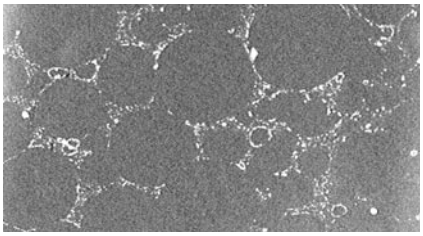
The small, only approx. 4 %, structure-forming, inorganic filler content is chemically connected to the surrounding PMMA acrylic matrix by methacrylic silane bridges.

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

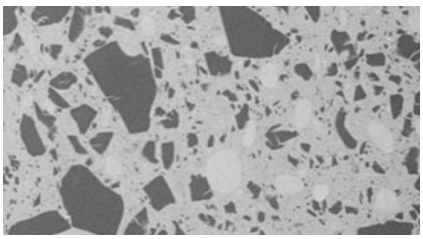
The innovative pairing of the smallest, evenly distributed inorganic fillers and coordinated different complex spherical polymer macromolecules result in an innovatively high density for polymers.

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.

HMP-N®



Nano Filled Composite – composite dental material



REM 900x Merz Dental Material Development

## 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.

MERZ DENTAL
MDR
MDSAP
High Quality
EN ISO 13485
MADE IN GERMANY

# integral®






# 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

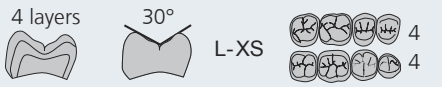
## THE ANTERIOR

- Fully anatomical, juvenile




## THE POSTERIOR

- Fully anatomical, juvenile




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

### SHADES

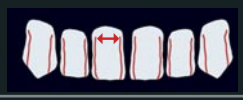
16 V-Classic shades (A1-D4) and
4 Bleach shades (BL1-BL4)

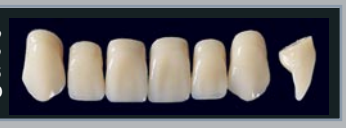
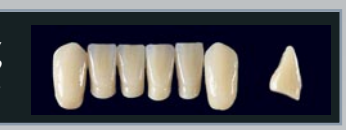
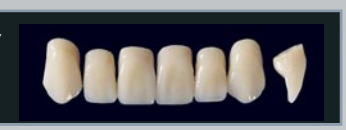



Mould chart
REF 1090049

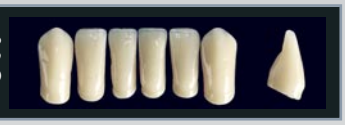
CE 0482

## C-mould



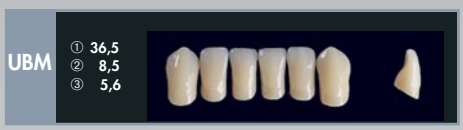
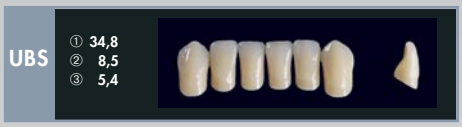
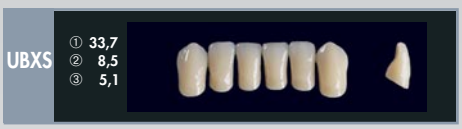
| | | | | |
|---|---|---|---|---|
| CL | ① 48,9<br>② 10,9<br>③ 8,5<br>④ 42,0 |  |
| UCL | ① 38,7<br>② 9,1<br>③ 5,7 |  |
| CM | ① 46,2<br>② 10,5<br>③ 8,2<br>④ 40,0 |  |
| UCM | ① 36,7<br>② 8,9<br>③ 5,4 |  |
| CS | ① 43,7<br>② 9,7<br>③ 7,8<br>④ 39,0 |  |
| UCS | ① 34,0<br>② 8,6<br>③ 5,2 |  |

Special size

| | | |
|---|---|---|
| UBLL | ① 39,6<br>② 12,9<br>③ 6,0 |  |

## B-mould

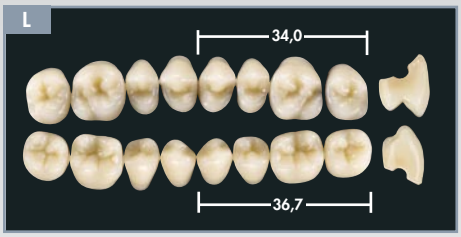


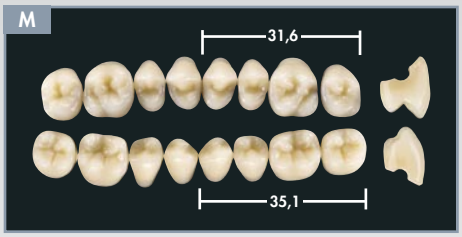
| | | |
|---|---|---|
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| UBL | ① 38,5<br>② 8,6<br>③ 6,0 |  |
| BM | ① 46,7<br>② 11,0<br>③ 8,8<br>④ 40,0 |  |
| UBM | ① 36,5<br>② 8,5<br>③ 5,6 |  |
| BS | ① 43,8<br>② 10,4<br>③ 8,5<br>④ 38,0 |  |
| UBS | ① 34,8<br>② 8,5<br>③ 5,4 |  |
| BXS | ① 40,8<br>② 9,2<br>③ 7,5<br>④ 35,0 |  |
| UBXS | ① 33,7<br>② 8,5<br>③ 5,1 |  |

## I-mould



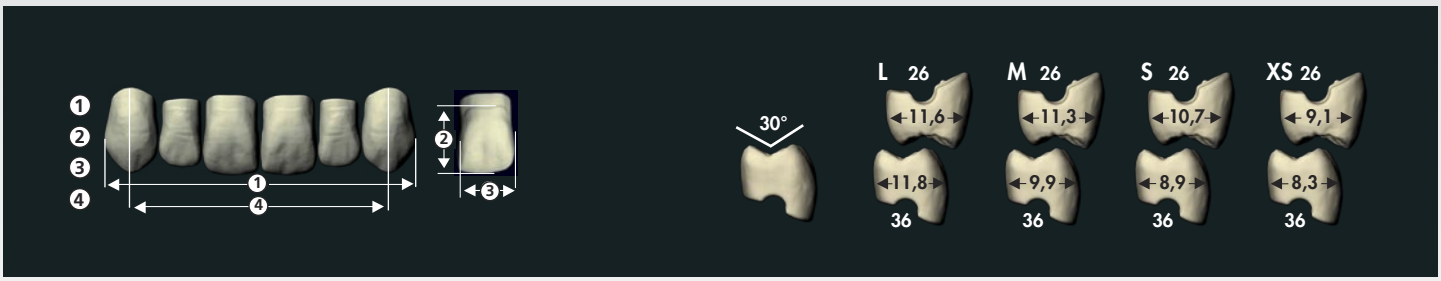
| | | |
|---|---|---|
| IL | ① 47,2<br>② 11,5<br>③ 8,5<br>④ 41,0 |  |
| UIL | ① 37,3<br>② 9,3<br>③ 5,4 |  |
| IM | ① 44,7<br>② 10,8<br>③ 8,2<br>④ 39,0 |  |
| UIM | ① 34,6<br>② 8,8<br>③ 4,9 |  |
| IS | ① 42,0<br>② 10,7<br>③ 7,7<br>④ 37,0 |  |
| UIS | ① 33,4<br>② 8,7<br>③ 4,8 |  |









## TOOTH COMBINATION CHART





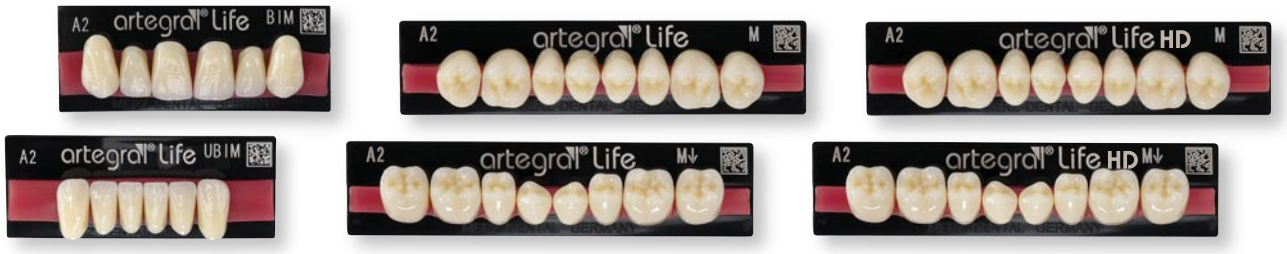
| | | |
|---|---|---|
| CL | UCL | L (M) |
| CM | UCM | M (S) |
| CS | UCS | S (XS) |
| BL | UBL (UBLL) | L (M) |
| BM | UBM | M (S) |
| BS | UBS | S (XS) |
| BXS | UBXS | XS (S) |
| IL | UIL | L (M) |
| IM | UIM | M (S) |
| IS | UIS | S (XS) |




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

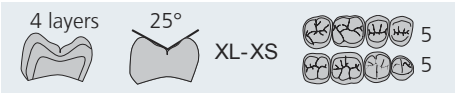
## THE ANTERIOR

- Fully anatomical

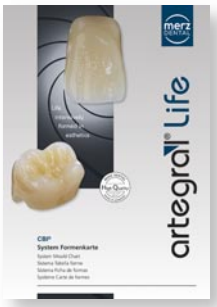



## THE POSTERIOR

- 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





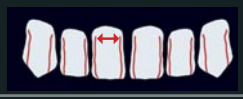


Brochure REF 1092328

Mould chart
REF 1092233

CE 0482

C-mould



B-mould



BO-mould








BI-mould

I-mould

IT-mould




artegral® Life

## TOOTH COMBINATION CHART

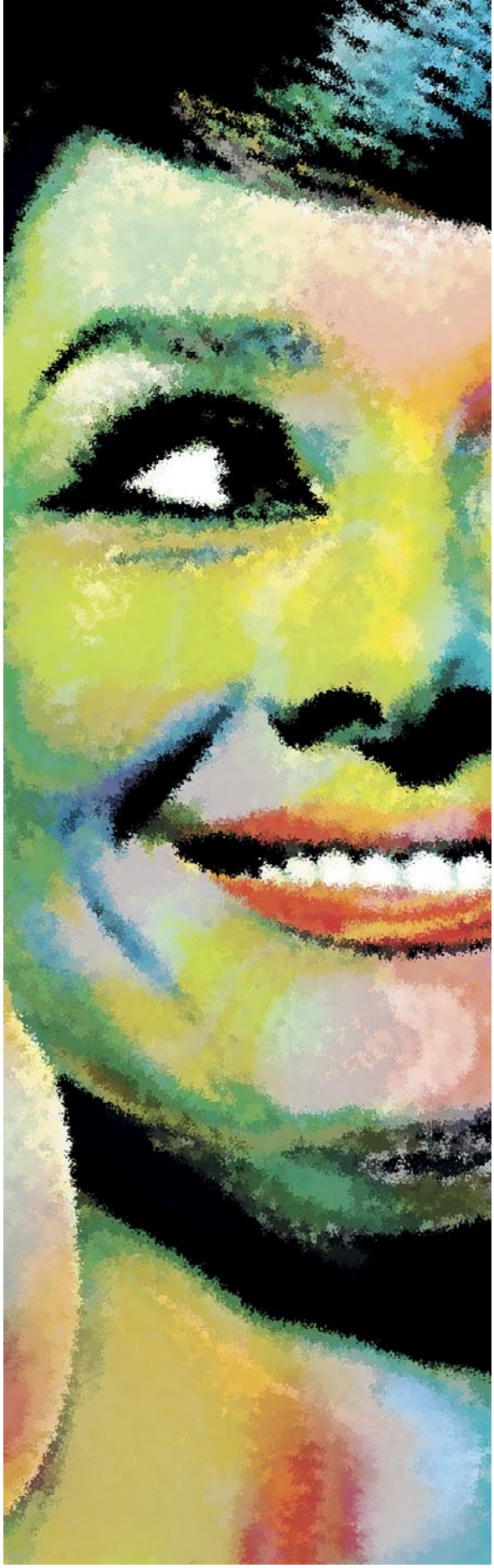


| | | |
|---|---|---|
| C L | UC L | L/XL |
| C M | UC M | M |
| C S | UC S | S/XS |
| B XL | UB XL | XL |
| B L | UB L | L/XL |
| B M | UB M | M |
| B S | UB S | S/XS |
| BO L | UBI L | L/XL |
| BO M | UBI M | M |
| BO S | UBI S | S/XS |
| BI L | UBI L | L/XL |
| BI M | UBI M | M |
| BI S | UBI S |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




Polystar®

# Selection EDITION



*The Modern Art Of Teeth*




# Polystar® Selection EDITION
# Polystar® Selection EDITION HD

## 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®**

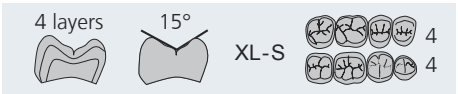
### THE ANTERIOR

- 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

# Polystar® Selection EDITION 2

## 4-LAYER POSTERIOR
## FOR THE CLASSIC AND SYSTEM-ORIENTED
## TOOTH-TO-TWO-TEETH SET-UP

MATERIAL

OMP-N®

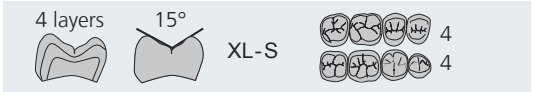
SET-UP CONCEPT

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.

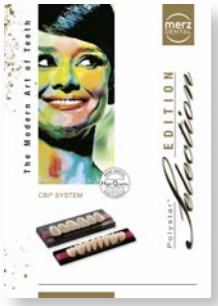


### THE POSTERIOR

- Semi-anatomical

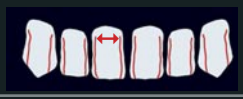



- Safe centric
- Harmonic balancing for the classical compensation curve
- Narrow posterior tooth
- Flat cusps (15°), convex occlusal contacts
- Identical left and right side by CAD/CAM reflection
- Anatomical deep fissures for high chewing performance with low chewing force
- Reduced basal contour




Mould chart
REF 1090779

CE 0482

C-mould 

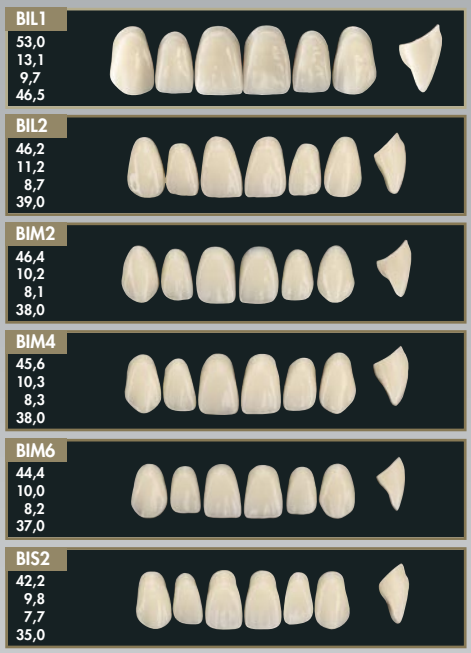
B-mould 

BI-mould 

























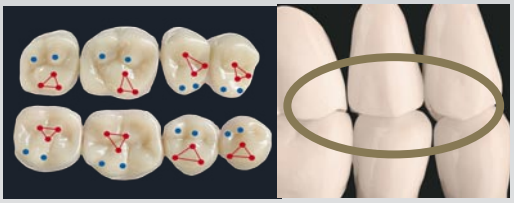




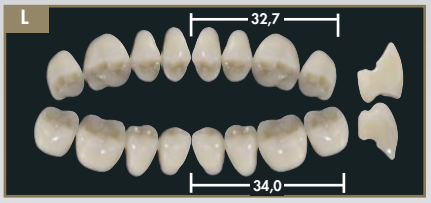




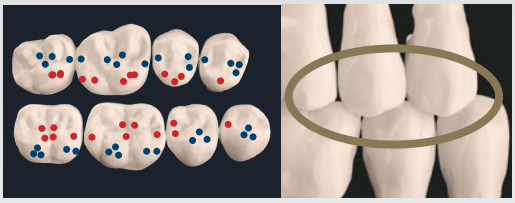

## Polystar® Selection EDITION





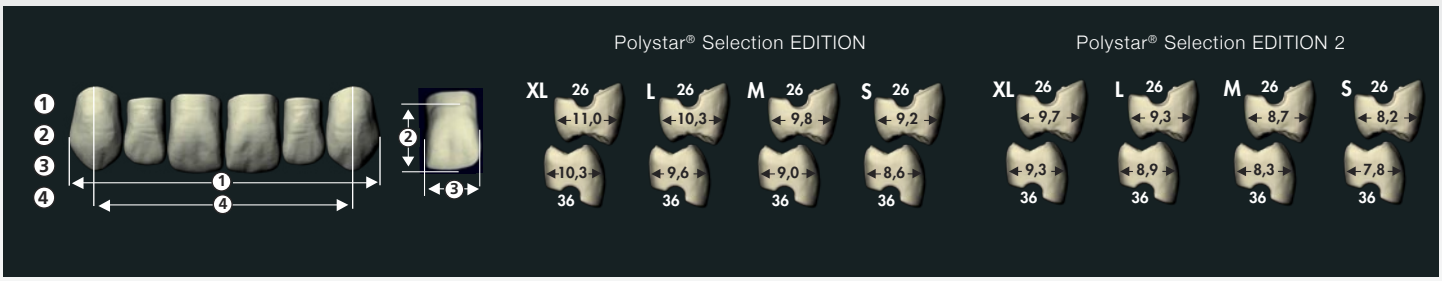

## Polystar® Selection EDITION 2





























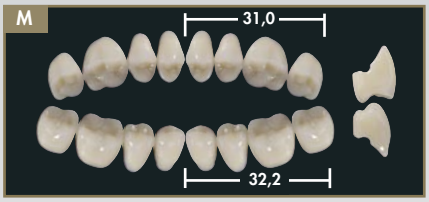


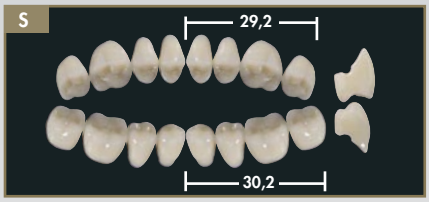
## TOOTH COMBINATION CHART





| | | 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 |



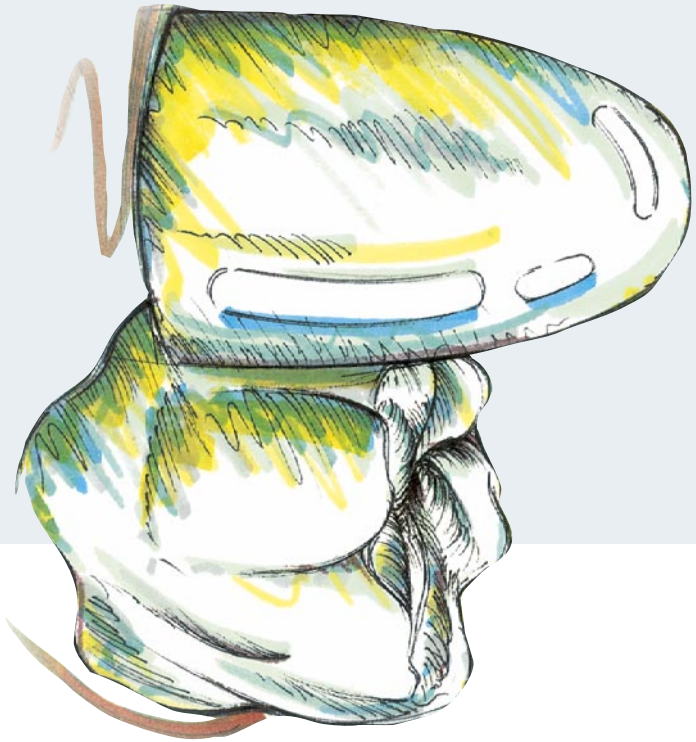


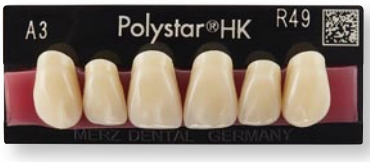


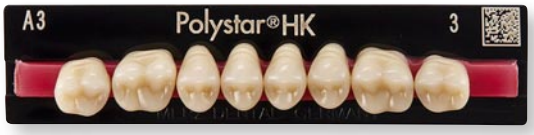


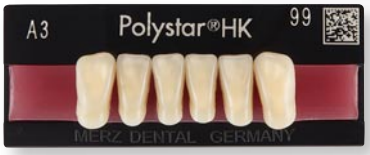

Polystar® EDITION Selection

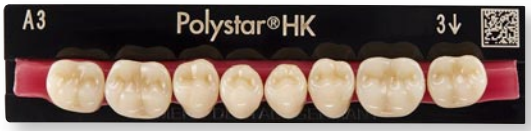
# Polystar® HK






# Polystar® HK

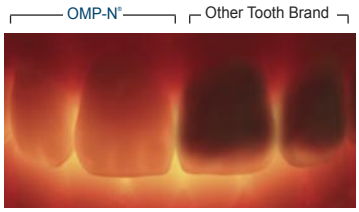
## A CLASSIC AMONGST DENTURE TEETH

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

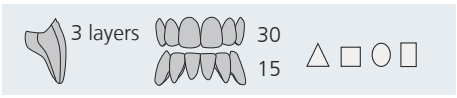
OMP-N®

### SET-UP CONCEPT

Tooth-to-two-teeth set-up

### THE ANTERIOR

- Semi-anatomical




### THE POSTERIOR

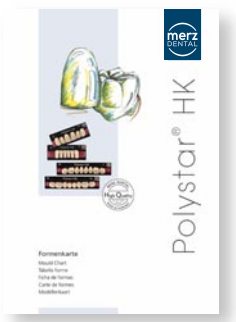
- Semi-anatomical




- Fully balanced occlusion

### SHADES

16 V-Classic shades (A1-D4)




Mould chart
REF 1090159

CE 0482

▲ - mould

**D 67**
41,2
8,5
7,7
35,0



**D 68**
44,1
9,3
8,4
37,0



**D 82**
44,1
9,3
8,5
38,0



**D 65**
47,8
11,3
9,0
40,0



● - mould

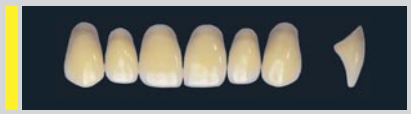
**O 85**
41,7
9,6
7,7
36,0



**O 52**
48,9
11,5
9,4
41,0



**O 48**
48,2
11,0
9,1
40,0



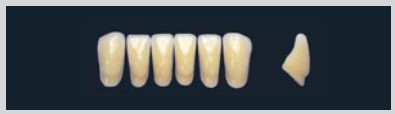
**90**
31,2
8,5
4,7



**91**
33,4
9,0
4,9



**92**
31,5
9,1
4,7



**92 S**
30,7
9,0
4,4



**93**
35,9
8,5
5,4



▬ - mould

**R 86**
42,5
10,1
7,8
36,0



**R 75**
42,9
10,1
8,1
37,0



**R 69**
43,2
10,0
8,0
37,0



**R 47**
43,3
10,9
8,1
36,0



**R 87**
43,7
10,6
7,8
36,0



**R 51**
44,6
10,3
8,2
38,0



**R 88**
45,2
11,0
8,4
39,0



**R 76**
45,5
10,6
8,6
39,0



**R 49**
46,7
11,5
8,7
39,0



**R 60**
47,4
11,4
9,0
40,0



**R 55**
47,7
11,2
8,8
41,0



**R 89**
49,5
13,0
9,3
43,0



**R 66**
51,0
13,0
9,4
43,0



■ - mould

**Q 64**
41,5
9,8
7,7
35,0



**Q 77**
44,1
9,5
8,6
37,0



**Q 45**
44,4
9,1
8,4
37,0



**Q 84**
44,5
10,0
8,3
38,0



**Q 46**
45,0
10,0
8,4
38,0



**Q 83**
45,7
10,5
8,6
38,0



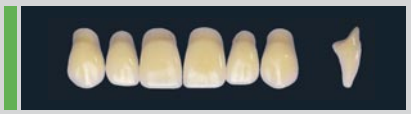
**Q 62**
46,4
9,8
8,6
39,0



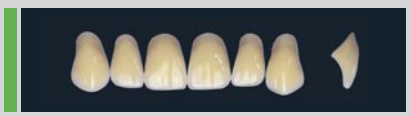
**Q 58**
46,5
9,3
8,7
39,0



**Q 63**
47,0
10,3
9,0
41,0



**Q 78**
47,4
10,1
9,0
40,0



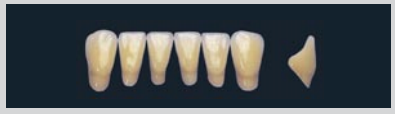
**93 S**
36,1
8,0
5,4



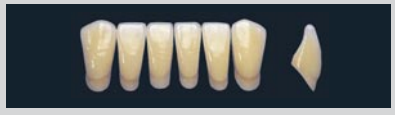
**94**
35,8
8,6
5,5



**95**
36,2
8,7
5,5



**96**
37,8
11,2
5,6



**97**
37,7
8,9
5,6



**98**
39,1
9,7
6,1



**99**
35,0
9,2
5,3



**100**
35,3
9,2
5,3



**101**
37,7
10,6
5,5



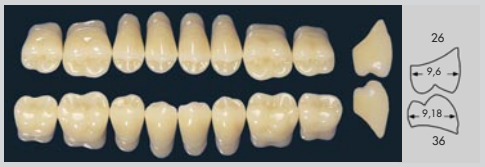
**102**
37,4
9,3
5,6

# Polystar® HK

## TOOTH COMBINATION CHART

| | ANTERIORS | | POSTERIORS |
|---|---|---|---|
| | 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 |

[1]OK = upper [2]UK = lower




**2** ① 33,1 / ② 34,7




**3** ① 32,5 / ② 34,4




**3S** 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



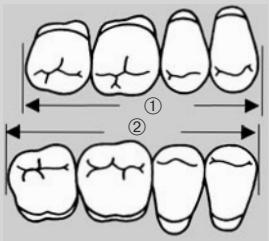

**40** ① 30,5 / ② 33,2




**50** ① 30,2 / ② 32,2




**60** ① 29,9 / ② 31,4




▲ D = triangular

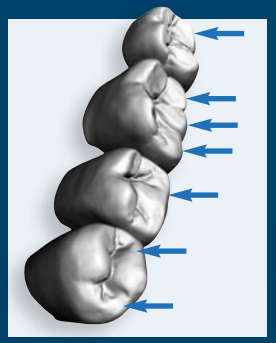
▮ R = rectangular

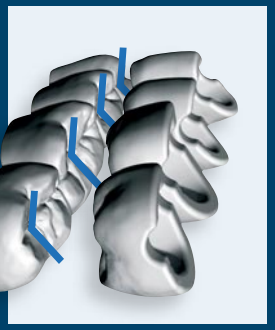
● O = oval

■ Q = square

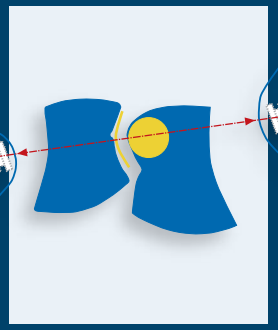
# DeltaForm®





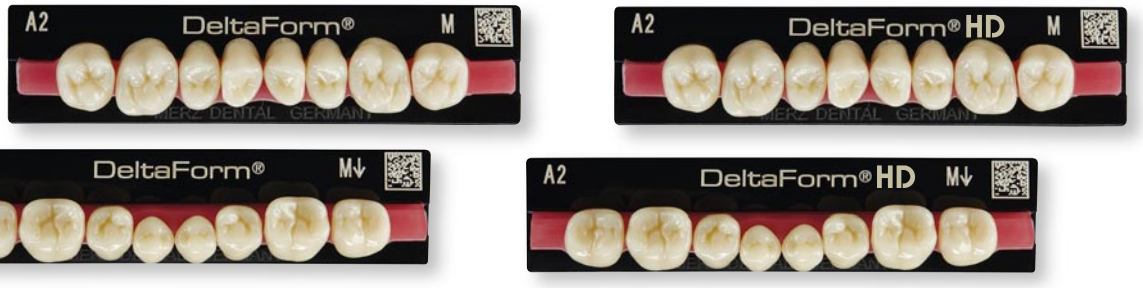






MDT Max Bosshart






# 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®

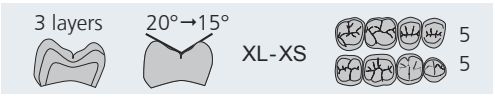
A choice of two types of material for the posteriors:
**DeltaForm®** made of **OMP-N®**
**DeltaForm® HD** made of **HMP-N®**

### SET-UP CONCEPT

Lingualized occlusion

## THE POSTERIOR

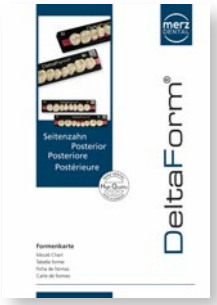
- Semi-anatomical




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

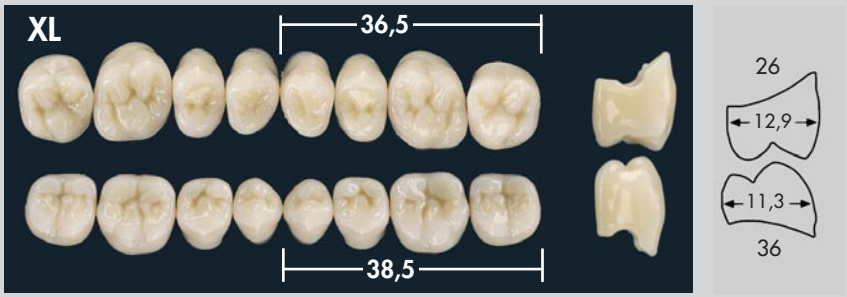
### SHADES

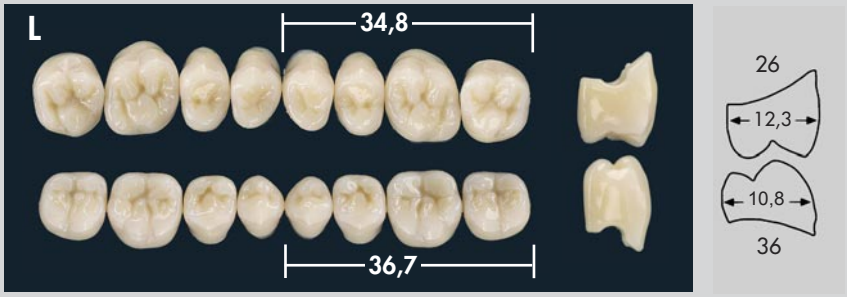
16 V-Classic shades (A1-D4) and
4 Bleach shades (BL1 - BL4)

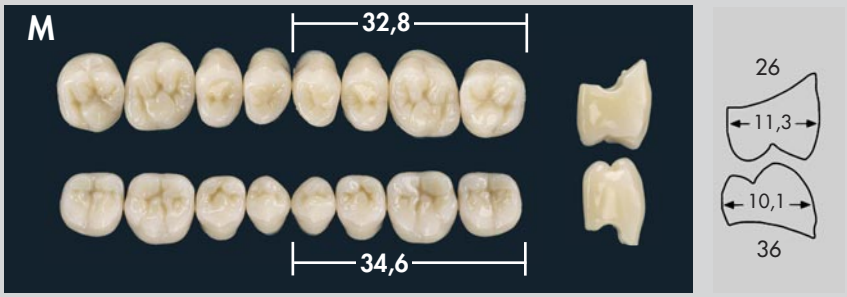


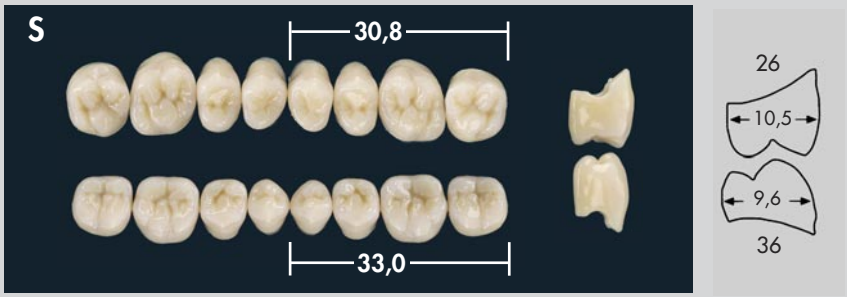

Mould chart
REF 1090170

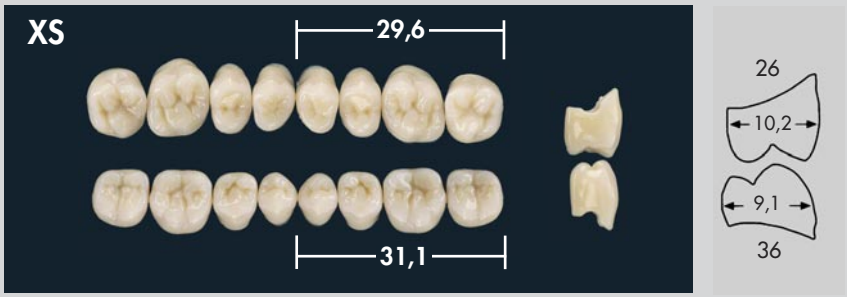
CE 0482


XL
36,5
38,5
26
12,9
11,3
36

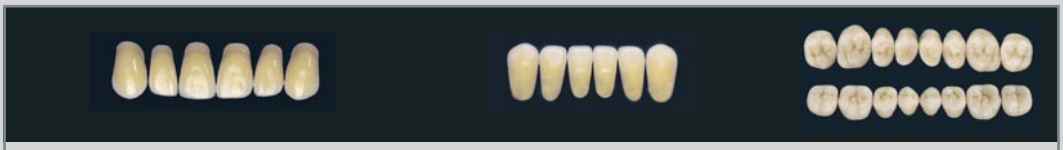

L
34,8
36,7
26
12,3
10,8
36


M
32,8
34,6
26
11,3
10,1
36


S
30,8
33,0
26
10,5
9,6
36


XS
29,6
31,1
26
10,2
9,1
36

# TOOTH COMBINATION CHART



| Polystar® HK | | Polystar® HK | DeltaForm® |
|---|---|---|---|
| ● - mould | O48 | 102/101/96 | XL / L |
| ▲ - mould | D82<br>D68 | 94/100<br>100/94/93/96 | M / S/XS<br>M / S |
| ■ - mould | R66<br>R49<br>R76<br>R88<br>R47<br>R86 | 91/100/93<br>100/93/99<br>99/102/101<br>99/102/101<br>101/96<br>96 | XS / S/M<br>S / M<br>M / L<br>M / L<br>M / L<br>XL |
| ■ - mould | Q76<br>Q62<br>Q58<br>Q46<br>Q84<br>Q45 | 91/100/94/93<br>94/99<br>99/102<br>102/101<br>93/99/102<br>102/101 | XS / S<br>XS / S<br>S / M<br>M / L<br>M / L<br>M / L |

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

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

*BDLoad (Anterior: Polystar® Selection EDITION)

DeltaForm®

# 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

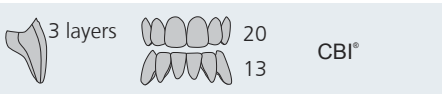
OMP-N®

### SET-UP CONCEPT

Tooth-to-tooth set-up

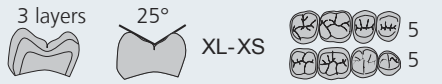
### ANTERIOR VENEER

- 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)



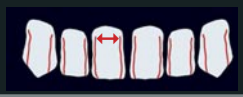




Brochure REF 1092419

Mould chart
REF 1092429

CE 0482

C-mould 

B-mould 

BO-mould 

**BXL**

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



**CL**

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



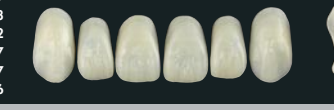
**BL**

| | | | |
|---|---|---|---|
| ① | 49,9 | ⑤ | 11,0 |
| ② | 11,6 | ⑥ | 11,9 |
| ③ | 13,0 | ⑦ | 7,1 |
| ④ | 9,3 | ⑧ | 12,2 |
| | | ⑨ | 14,0 |
| | | ⑩ | 8,7 |



**BOL**

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



**CM**

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



**BM**

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



**BOM**

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



**CS**

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



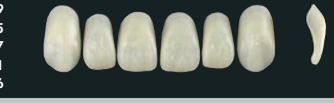
**BS**

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



**BOS**

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



**UCL**

| | | | |
|---|---|---|---|
| ① | 38,7 | ⑭ | 11,3 |
| ⑪ | 11,7 | ⑮ | 12,2 |
| ⑫ | 12,6 | ⑯ | 6,1 |
| ⑬ | 5,9 | ⑰ | 12,5 |
| | | ⑱ | 13,6 |
| | | ⑲ | 7,3 |



**UBL**

| | | | |
|---|---|---|---|
| ① | 39,6 | ⑭ | 10,2 |
| ⑪ | 10,1 | ⑮ | 11,9 |
| ⑫ | 11,8 | ⑯ | 6,3 |
| ⑬ | 5,8 | ⑰ | 11,6 |
| | | ⑱ | 13,0 |
| | | ⑲ | 7,2 |



**UBXL**

| | | | |
|---|---|---|---|
| ① | 43,6 | ⑭ | 11,8 |
| ⑪ | 11,0 | ⑮ | 13,3 |
| ⑫ | 13,2 | ⑯ | 7,2 |
| ⑬ | 6,5 | ⑰ | 13,2 |
| | | ⑱ | 14,6 |
| | | ⑲ | 8,0 |



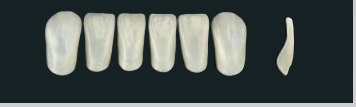
**UCM**

| | | | |
|---|---|---|---|
| ① | 37,0 | ⑭ | 11,1 |
| ⑪ | 11,0 | ⑮ | 11,8 |
| ⑫ | 11,7 | ⑯ | 5,8 |
| ⑬ | 5,7 | ⑰ | 11,7 |
| | | ⑱ | 12,9 |
| | | ⑲ | 7,0 |



**UBM**

| | | | |
|---|---|---|---|
| ① | 38,2 | ⑭ | 10,4 |
| ⑪ | 9,8 | ⑮ | 11,4 |
| ⑫ | 11,3 | ⑯ | 6,1 |
| ⑬ | 5,6 | ⑰ | 11,5 |
| | | ⑱ | 12,5 |
| | | ⑲ | 7,0 |



**UCS**

| | | | |
|---|---|---|---|
| ① | 35,0 | ⑭ | 10,2 |
| ⑪ | 10,6 | ⑮ | 11,0 |
| ⑫ | 11,3 | ⑯ | 5,4 |
| ⑬ | 5,3 | ⑰ | 10,8 |
| | | ⑱ | 12,2 |
| | | ⑲ | 6,6 |

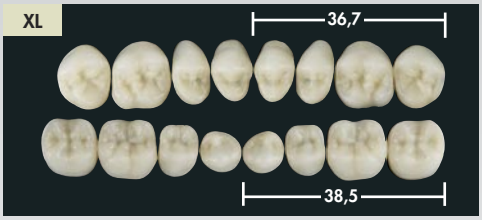


**UBS**

| | | | |
|---|---|---|---|
| ① | 35,3 | ⑭ | 9,8 |
| ⑪ | 8,7 | ⑮ | 10,6 |
| ⑫ | 10,5 | ⑯ | 5,7 |
| ⑬ | 5,2 | ⑰ | 10,7 |
| | | ⑱ | 11,7 |
| | | ⑲ | 6,5 |

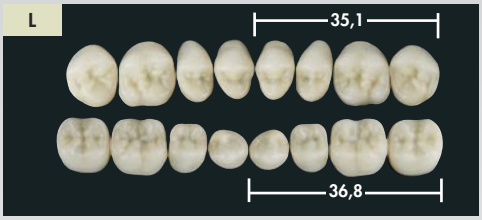


**XL**



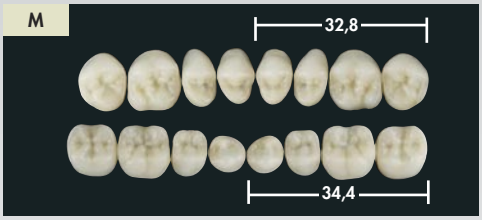

| ① | | | | ② | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 14/24 34/44 | 15/25 35/45 | 16/26 36/46 | 17/27 37/47 | 14/24 34/44 | 15/25 35/45 | 16/26 36/46 | 17/27 37/47 | tooth | tooth |
| 8,1 | 7,4 | 11,3 | 10,0 | 12,7 | 12,5 | 11,1 | 9,7 | | |
| 8,1 | 7,7 | 11,5 | 11,3 | 13,3 | 12,5 | 11,3 | 10,2 | | |

**L**

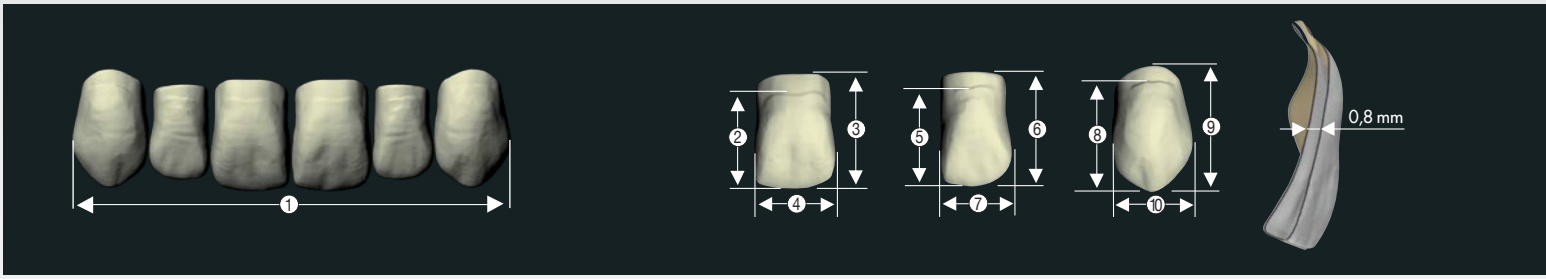



| ① | | | | ② | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 14/24 34/44 | 15/25 35/45 | 16/26 36/46 | 17/27 37/47 | 14/24 34/44 | 15/25 35/45 | 16/26 36/46 | 17/27 37/47 | tooth | tooth |
| 7,6 | 7,0 | 10,8 | 9,6 | 12,0 | 11,7 | 10,6 | 9,2 | | |
| 7,7 | 7,3 | 11,0 | 10,5 | 12,6 | 11,9 | 10,8 | 9,2 | | |

**M**




| ① | | | | ② | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 14/24 34/44 | 15/25 35/45 | 16/26 36/46 | 17/27 37/47 | 14/24 34/44 | 15/25 35/45 | 16/26 36/46 | 17/27 37/47 | tooth | tooth |
| 6,6 | 5,6 | 10,1 | 9,0 | 11,2 | 11,0 | 10,0 | 8,6 | | |
| 7,2 | 7,0 | 10,3 | 10,0 | 11,8 | 11,2 | 10,1 | 8,8 | | |



## BI-mould



## I-mould



## IT-mould



**IXL**

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



**BIL**

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



**IL**

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



**ITL**

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



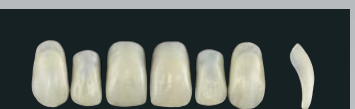
**BIM**

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



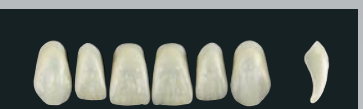
**IM**

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



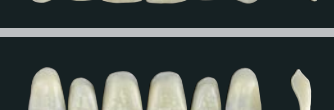
**ITM**

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



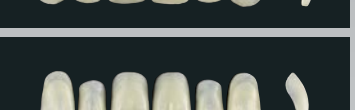
**BIS**

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



**IS**

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



**ITS**

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



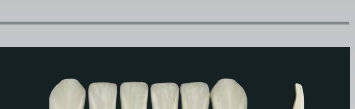
**UBIL**

| | | | |
|---|---|---|---|
| ① 39,5 | ⑭ 10,9 | ⑮ 12,5 | |
| ⑪ 11,2 | ⑯ 6,3 | ⑰ 12,8 | |
| ⑫ 12,5 | ⑱ 14,6 | | |
| ⑬ 5,7 | ⑲ 7,5 | | |



**UIL**

| | | | |
|---|---|---|---|
| ① 37,7 | ⑭ 10,9 | ⑮ 12,9 | |
| ⑪ 11,6 | ⑯ 5,8 | ⑰ 12,3 | |
| ⑫ 12,7 | ⑱ 13,6 | | |
| ⑬ 5,7 | ⑲ 7,2 | | |



**UBIM**

| | | | |
|---|---|---|---|
| ① 37,7 | ⑭ 10,0 | ⑮ 11,9 | |
| ⑪ 10,3 | ⑯ 5,9 | ⑰ 12,2 | |
| ⑫ 11,9 | ⑱ 13,7 | | |
| ⑬ 5,5 | ⑲ 7,2 | | |



**UIM**

| | | | |
|---|---|---|---|
| ① 35,3 | ⑭ 10,5 | ⑮ 12,0 | |
| ⑪ 10,4 | ⑯ 5,4 | ⑰ 11,1 | |
| ⑫ 11,7 | ⑱ 12,6 | | |
| ⑬ 5,3 | ⑲ 6,7 | | |



**UBIS**

| | | | |
|---|---|---|---|
| ① 35,7 | ⑭ 9,8 | ⑮ 11,4 | |
| ⑪ 9,8 | ⑯ 5,8 | ⑰ 11,6 | |
| ⑫ 11,3 | ⑱ 13,1 | | |
| ⑬ 5,2 | ⑲ 6,8 | | |

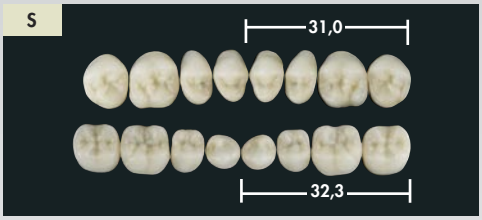


**UIS**

| | | | |
|---|---|---|---|
| ① 33,4 | ⑭ 9,6 | ⑮ 11,3 | |
| ⑪ 10,0 | ⑯ 5,0 | ⑰ 9,9 | |
| ⑫ 11,0 | ⑱ 11,8 | | |
| ⑬ 5,0 | ⑲ 6,2 | | |

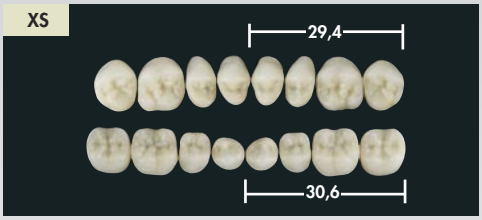


**S**

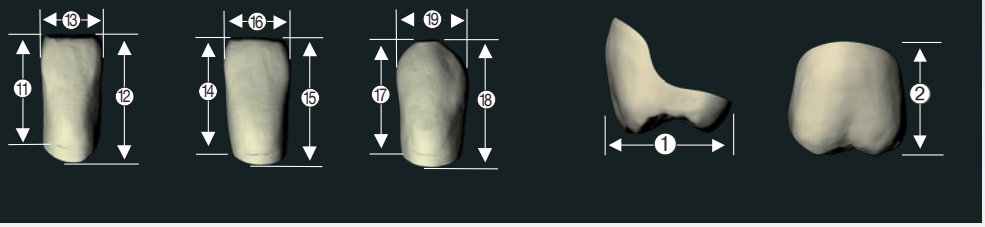



| ① | | | | ② | | | | |
|---|---|---|---|---|---|---|---|---|
| 14/24 34/44 | 15/25 35/45 | 16/26 36/46 | 17/27 37/47 | 14/24 34/44 | 15/25 35/45 | 16/26 36/46 | 17/27 37/47 | tooth tooth |
| 8,1 | 8,7 | 9,5 | 9,4 | 10,8 | 10,5 | 9,4 | 8,1 | |
| 7,2 | 7,4 | 8,6 | 8,8 | 11,2 | 10,6 | 9,4 | 8,5 | |

**XS**




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




artVeneer® Life



# Tooth cabinets

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

FEATURES and BENEFITS

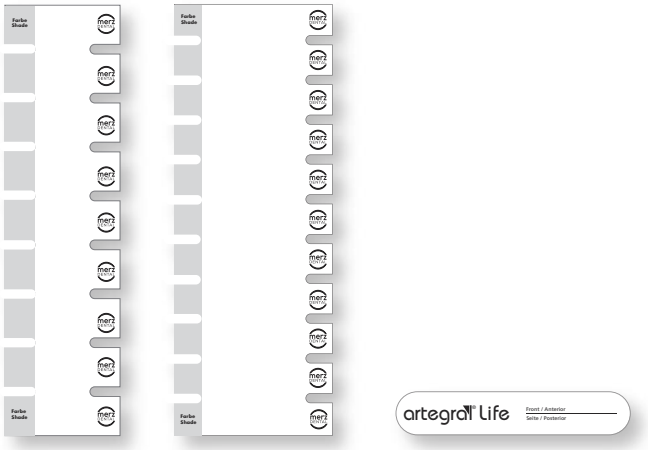
- The drawers are securely gripped and lowered at an angle when fully extended
- Sets are optimally selected right down to the last row
- The modular construction allows space-saving stackability
- The sloped handles cover the lower drawers, hence the teeth are protected from dust
- Each drawer holds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




## 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
- artegral® life HD REF 1090949
- Polystar® Selection EDITION REF 1090954
- Polystar® Selection EDITION 2 REF 1092506
- Polystar® Selection HD REF 1092507
- Polystar® HK REF 1090565
- DeltaForm® REF 1090955
- DeltaForm® HD REF 1092508
- 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 and 22 sets of posterior teeth REF 1090974






# 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 1010340

15 upper and 8 lower anterior sets
5 upper and 5 lower posterior sets

DeltaForm® / DeltaForm® HD — REF 1010339

15 upper and 8 lower anterior sets
5 upper and 5 lower HD posterior sets

DeltaForm® — REF 1010343

5 upper and 5 lower posterior sets

DeltaForm® HD — REF 1010344

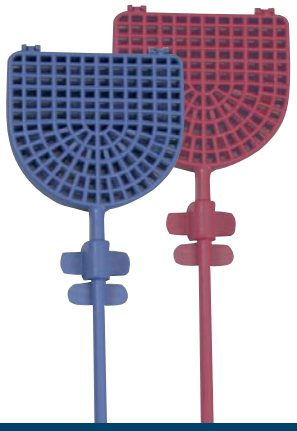
5 upper and 5 lower HD posterior sets

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
- 30,000 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

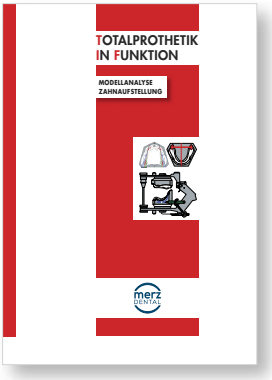


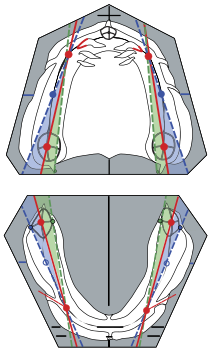
DELIVERY FORM

- REF 1030260

# TOTAL PROSTHETICS IN FUNCTION

acc. to Karl-Heinz Körholz



## System set-up

## T*i*F® model analysis tooth 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 T*i*F® 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 T*i*F® method is thus not dependent on devices and does not require additional investments.

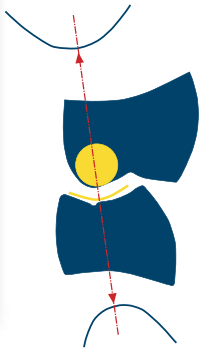
The systematic procedure ensures that the work result can be checked at any time. The set-up of each individual tooth can be determined and checked in all three dimensions by using very simple technical aids such that the technician can achieve and guarantee a consistently high quality standard in the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

### 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

### 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 |

## Profile compass

### 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 basic 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 (T*i*F®).

- ✔ 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 /N FUNCTION

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)
- ✔ 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

1 piece

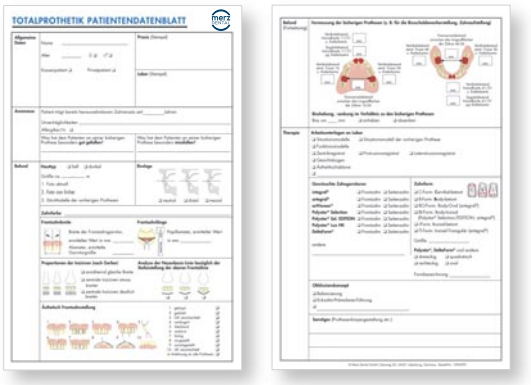
REF 1090390



## Full dentures laboratory checklist

### PDF AVAILABLE FOR DOWNLOAD

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



## Full dentures data sheet

### PDF AVAILABLE FOR DOWNLOAD

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

# 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

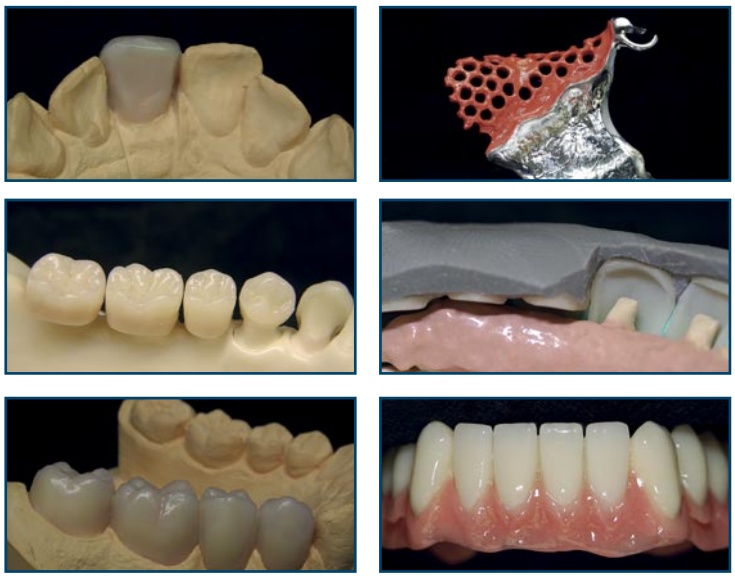


*Dental work completed with artVeneer® life and artConcept® PLUS veneering system components*




## 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 *PLUS* GUM** | 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 1092371









**MINIset** excl. Metal Primer

**MINIset** incl. Metal Primer

**INTROset**

**STARTset**

## MINIset excl. Metal Primer

| | | | | REF |
|---|---|---|---|---|
| artDentine *PLUS* Polymer | in the corresponding shade V-Classic | 35 g | A2 | 1070468 |
| artDentine *PLUS* Liquid NT | normal time | 100 ml | | |
| artConnect *PLUS* | acrylic bonder (artVeneer® life - artDentine *PLUS*) | 50 ml | | |
| artPreOpaque *PLUS* | pre-opaquer | 3 g | A3 | 1070469 |
| artOpaque *PLUS* | in the corresponding shade V-Classic | 3 g | | |

## MINIset incl. Metal Primer

| | | | | REF |
|---|---|---|---|---|
| artDentine *PLUS* Polymer | in the corresponding shade V-Classic | 35 g | A2 | 1070470 |
| artDentine *PLUS* Liquid NT | normal time | 100 ml | | |
| artPrime *PLUS* | metal primer (metal -artOpaque *PLUS*) | 5 ml | | |
| artConnect *PLUS* | acrylic bonder (artVeneer® life - artDentine *PLUS*) | 50 ml | A3 | 1070471 |
| artPreOpaque *PLUS* | pre-opaquer | 3 g | | |
| artOpaque *PLUS* | in the corresponding shade V-Classic | 3 g | | |

## INTROset

| | | | | REF |
|---|---|---|---|---|
| artDentine *PLUS* Polymer | in the corresponding shade V-Classic | 35 g | | |
| artDentine *PLUS* Liquid NT | normal time | 100 ml | | |
| artPrime *PLUS* | metal primer (metal -artOpaque *PLUS*) | 5 ml | A2 | 1070466 |
| artConnect *PLUS* | acrylic bonder (artVeneer® life - artDentine *PLUS*) | 50 ml | | |
| artPreOpaque *PLUS* | pre-opaquer | 3 g | A3 | 1070467 |
| artOpaque *PLUS* | in the corresponding shade V-Classic | 3 g | | |
| artVeneer® life | upper anteriors (6 veneers) | | | |
| artVeneer® life | upper posteriors (8 veneers) | | | |

## STARTset

| | | | REF |
|---|---|---|---|
| artConcept *PLUS* | display tray | 1 pc. | 1070472 |
| artDentine *PLUS* Polymer | in V-Classic shades A2, A3, A3.5, A4, B2, B3, C2, D2 | à 35 g | |
| artDentine *PLUS* Liquid NT | normal time | 100 ml | |
| artPrime *PLUS* | metal primer (metal-artOpaque *PLUS*) | 5 ml | |
| artConnect *PLUS* | acrylic bonder (artVeneer® life - artDentine *PLUS*) | 50 ml | |
| artPreOpaque *PLUS* | pre-opaquer | 3 g | |
| artOpaque *PLUS* O1 | for the V-Classic shades A2, A3.5, B1, B2, B3, C2, C3, D2, D3, BL1, BL2 | 3 g | |
| artOpaque *PLUS* O2 | for the V-Classic shades A3, A4, B4, C4, D4 | 3 g | |
| artOpaque *PLUS* O3 | for the V-Classic shades A1, C1, BL3, BL4 | 3 g | |
| artVeneer wax *PLUS* | fixation wax for artVeneer® life | 45 g | |
| Accessories | 10 brush tips, 1 brush tip holder, 1 short brush, 6 mixing trays | | |




# 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*) | 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

Short brush 1 pc. REF 1010688

Brush tip holder 1 pc. REF 1010686

Application syringe 1 pc. REF 1060376

Mixing trays 6 pcs. 1010685

# DENTURE BASE ACRYLICS



## Quality based on competence

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.

## 100 % Made in Germany

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 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |





## 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, three-dimensional 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.

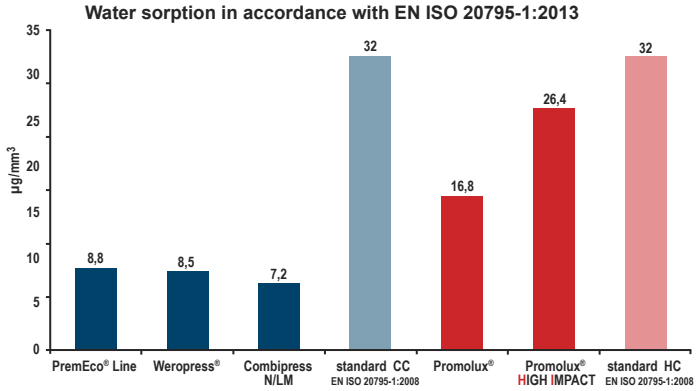
At Merz Dental, reliable resistance to wear in order to prevent discoloration and impurities as well as high standards in terms of chemical, physical and mechanical properties are always monitored and tested on an ongoing basis throughout the entire production process. Prosthetic acrylics are worn in 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 flexural strength, elastic modulus, residual monomer content as well as water sorption in the oral cavity. The prosthetic acrylics produced by Merz Dental meet these requirements.

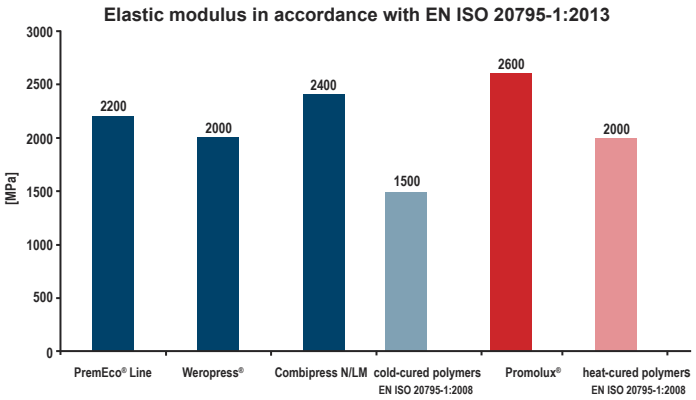

COMPLIANCE
Certificate

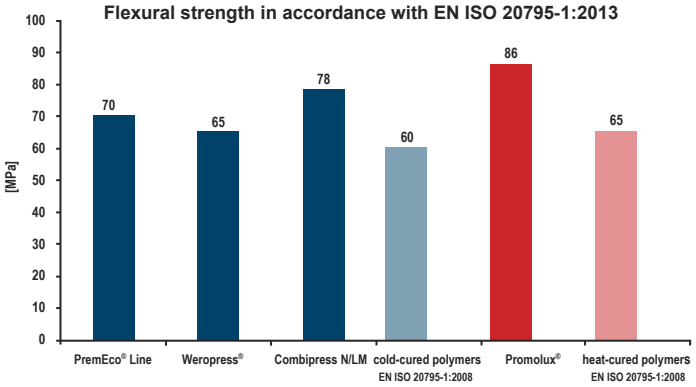




## Our basic quality standard features




- Excellent fit accuracy
- Large selection of colors
- High resilience
- Excellent polishing features
- High plaque-resistance
- Biocompatibility tested
- Free of cadmium colorants

EN ISO 13485 Millionfold proven MADE IN GERMANY

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



**REF 1090209**







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
- Free of cadmium colorants

| REF | pink | pink veined | pink3 | H-pink |
|---|---|---|---|---|
| **100 g** | 1020045 | 1025014 | 1020032 | 1020039 |
| **1000 g** | 1025050 | 1025051 | 1025057 | 1025052 |
| **12 kg** | 1020092 | 1020093 | 1020110 | 1020111 |

| REF | BDLoad pink | BDLoad dark pink | clear | C34 | C34 non-veined | C34 Original | CS41 | RTV33 | L1 | V3 | V5 | V10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **100 g** | 1025034 | 1020031 | 1020048 | 1020046 | 1020077 | 1020160 | 1020055 | 1020087 | 1025036 | 1020075 | 1020041 | 1020076 |
| **1000 g** | 1025056 | 1025058 | 1025053 | 1025054 | 1025041 | 1020161 | 1025055 | 1025042 | 1025038 | 1025039 | 1025040 | 1025043 |
| **12 kg** | 1020112 | 1020113 | 1020114 | 1020094 | 1020115 | 1020162 | 1020116 | 1020117 | 1020097 | 1020118 | 1020119 | 1020120 |

| | | |
|---|---|---|
| **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**

CE 0482







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
- Free of cadmium colorants

| REF | | pink | pink veined | [BD]Load pink | clear | C34 | RTV33 | RTV |
|---|---|---|---|---|---|---|---|---|
| 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 | REF 1020121 | REF 1020122 | REF 1020123 | REF 1020124 | - |
| 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 |
| Combipress LM | **12 kg** | REF 1020125 | REF 1020126 | - | REF 1020127 | - | REF 1020128 | REF 1020129 |

| | | |
|---|---|---|
| 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**

CE 0482







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® Line Color 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
- Free of cadmium colorants

| REF | pink | pink-opaque | clear | C34 light | C34 dark | RTV | S34 |
|---|---|---|---|---|---|---|---|
| **100 g** | REF 1030086 | REF 1030087 | REF 1030064 | REF 1030088 | REF 1030090 | REF 1030058 | REF 1030093 |
| **1000 g** | REF 1025112 | REF 1025113 | REF 1025114 | REF 1025115 | REF 1025116 | REF 1025117 | REF 1025118 |
| **12 kg** | REF 1020130 | REF 1020131 | REF 1020132 | REF 1020133 | REF 1020134 | REF 1020135 | REF 1020136 |

| | |
|---|---|
| **100 ml** | REF 1030089 |
| **1000 ml** | REF 1030073 |



Shade tab **REF 1090208**



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

CE 0482










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

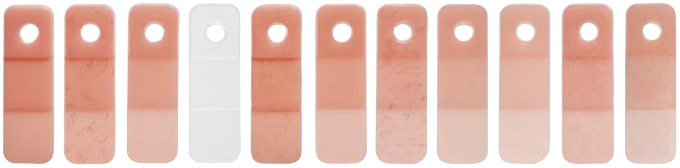
### FEATURES and BENEFITS

- 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
- Free of cadmium colorants

| 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 1020137 |

| REF | clear | C34 | CS41 | RTV33 | RTV | V3 | V5 | V10 |
|---|---|---|---|---|---|---|---|---|
| **100 g** | REF 1025004 | REF 1020009 | REF 1020015 | REF 1020019 | REF 1020002 | REF 1020071 | REF 1020034 | REF 1020072 |
| **1000 g** | REF 1025127 | REF 1025129 | REF 1025128 | REF 1025134 | REF 1025135 | REF 1025131 | REF 1025132 | REF 1025133 |
| **12 kg** | REF 1020138 | REF 1020139 | REF 1020140 | REF 1020141 | REF 1020142 | REF 1020143 | REF 1020144 | REF 1020145 |

| | |
|---|---|
| **100 ml** | REF 1020008 |
| **500 ml** | REF 1020036 |
| **1000 ml** | REF 1025003 |



Shade tab **REF 1090209**

CE 0482







Biocompatibility tested

PHTHALATE® FREE

# 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
- Free of cadmium colorants

| REF | pink | L1 | C34 |
|---|---|---|---|
| **100 g** | REF 1020063 | REF 1020065 | REF 1020064 |
| **1000 g** | REF 1025120 | REF 1025121 | REF 1025122 |
| **12 kg** | REF 1020146 | REF 1020147 | REF 1020148 |

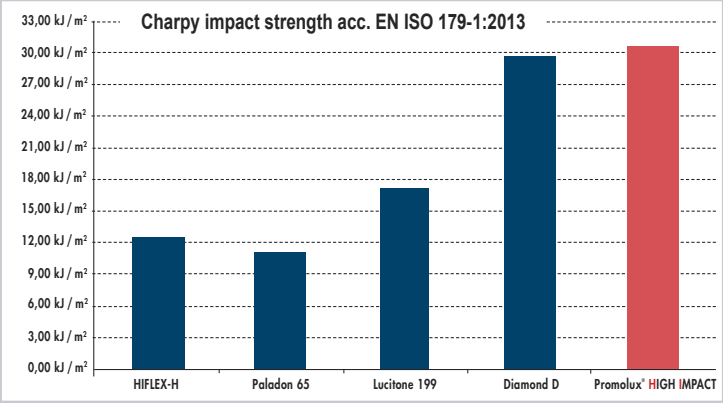
| | |
|---|---|
| **100 ml** | REF 1020062 |
| **500 ml** | REF 1020061 |
| **1000 ml** | REF 1020060 |



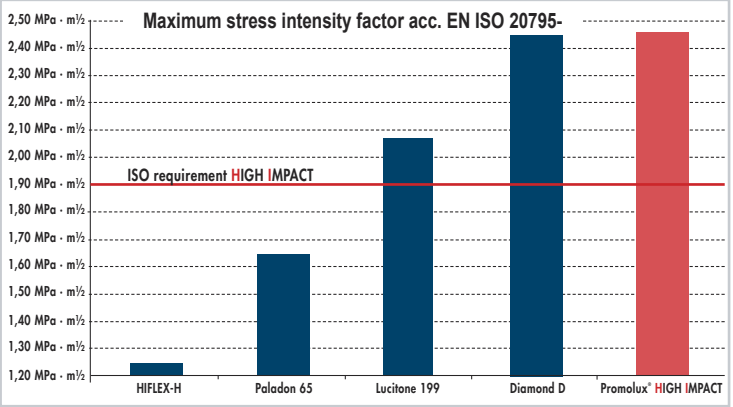
Shade tab
**REF 1090269**

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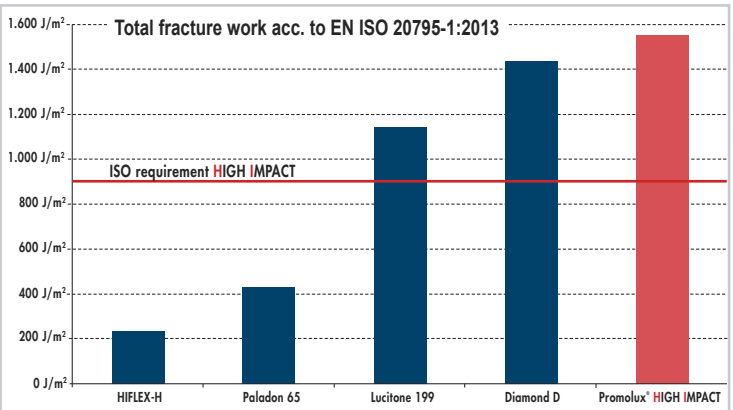
# Merz Dental Research & Development




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



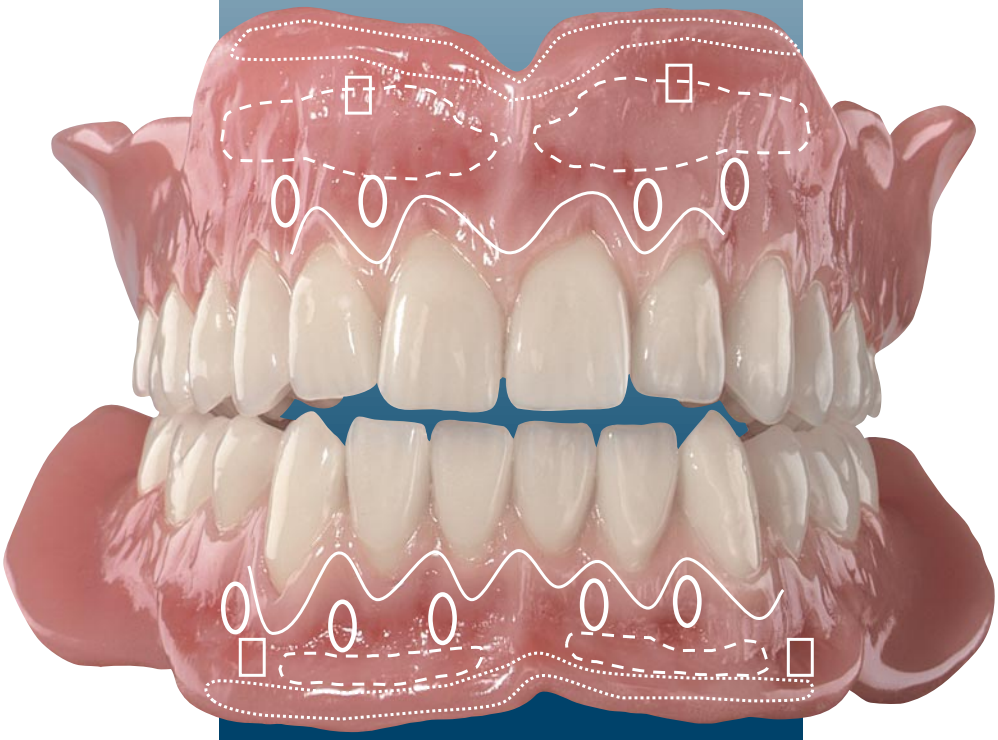

Maximum stress intensity factor - energy required to generate fracture via crack extensions - Promolux® HIGH IMPACT more than 2,46 MPa-m½




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

# PremEco® Line

## Prosthetics Color System



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**

- light rose
- reddish
- bluish

**Intensive colors**

- white
- ochre
- red
- blue



## 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
- Free of cadmium colorants

| | |
|---|---|
| **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

CE 0482

# 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

CE

## 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

CE

# 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

### PRECISION GEL

Highly precise, reversible duplicating material based on hydrocolloid agar-agar, made from high-quality natural products.

#### AREAS OF APPLICATION

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

#### FEATURES and BENEFITS

- For high quality and reversible duplicating
- 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 turquoise color
- True to volume
- Can be melted in the microwave
- Ultra-low processing temperature (47 - 48 °C) ensures exceptional dimensional stability by protecting the wax setup from distortion – even when processing with soft summer waxes
- Enhanced homogeneity compared with previous-generation precision gels, ensuring outstanding consistency throughout the duplication process
- Enhanced gel hardness for exceptional tooth fixation, providing a firm and secure hold of denture teeth throughout the entire processing cycle

#### COLOR

turquoise

#### DELIVERY FORM

- 2 kg REF 1030098
- 6 kg REF 1030099




# 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

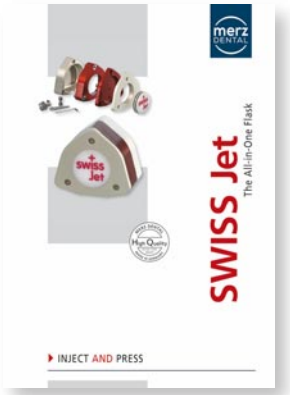
### DELIVERY FORM

- 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

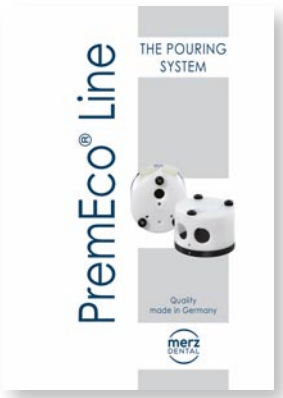
Robust, distortion-free duplicating flask used with the pourable casting technique to produce partial and full acrylic dentures, model cast dentures, double-crown and cover dentures, as well as for all types of bite splints.

### AREAS OF APPLICATION

For rational production of acrylic dentures due to gel-hydrocolloid investment with fast processing and finishing following polymerization. Suitable for methyl methacrylate-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 |




Step-by-Step
REF 1090340

### 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




VIDEO
BDImpress®

# BDImpress

## 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 polymerisation
- 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, BDImpress® softens to a pliable putty, which hardens into an unbreakable thermoplastic resin. The biocompatible BDImpress® can be reshaped as many times as it takes to achieve the perfect impression or bite registration.

### DELIVERY FORM

- 200 g REF 1032126

CE

# THERMOPLASTIC IMPRESSION MATERIAL





Download
[BD]KEY® STL files



# mμILLUSION

*Color and Micro-Layering Technique*




*Exclusive Edition*

# mμILLUSION







## *mμILLUSION*

VIDEO
Characterization
posterior crown

VIDEO
Characterization
anterior crown

With the new paste-like, opalescent and fluorescent *mμILLUSION* stains *mμILLUSION* Color, the layering materials *mμILLUSION* 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 *mμILLUSION* 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 *mμILLUSION* Color and from 0.2 mm to 0.8 mm for the layering materials *mμILLUSION* 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

mμILLUSION Color and 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



# 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.

# mμILLUSION



## 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.




- ***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

*mμILLUSION* 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.

The new *mμILLUSION* Paste gingiva shades in combination with the *mμILLUSION* 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



## mμ ILLUSION 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 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 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*

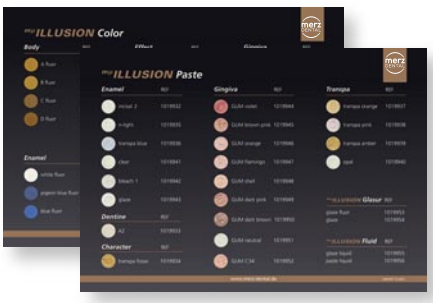
- provides same results before and after fixing, thanks to low shrinkage and color stability
- for precise and stable application with very good moulding properties
- reduce the storage of CAD/CAM blanks, the original color can be corrected by up to three shades lighter or darker

### mμILLUSION *Glaze magic fluor*

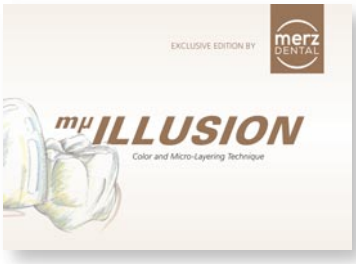
Brilliant fluorescence. Naturally beautiful results:
mμILLUSION Glaze Magic Fluor creates a homogeneous, light-stable surface with consistent shade effect under a wide range of lighting conditions – from daylight to modern LED illumination. Dark reflections or unwanted shade shifts under UV light are effectively avoided allowing the restoration to maintain its authentic, lifelike character in every situation.

The result: a natural gloss, impressive color depth, and an aesthetic appearance that blends harmoniously with the natural dentition.

- Clearly visible fluorescence at 365 nm and 395 nm
- Increased concentration of fluorescent pigments for exceptional luminosity
- Natural integration into the aesthetic appearance of the dentition
- Future-ready performance, optimized for modern LED light sources




Color guide
REF 1092457




Brochure
REF 1092466

# COLOR AND MICRO LAYERING TECHNIQUE



| | Color | | REF |
|---|---|---|---|
| Body | A fluor | 4 g | 1019910 |
| | B fluor | 4 g | 1019911 |
| | C fluor | 4 g | 1019912 |
| | D fluor | 4 g | 1019913 |
| Enamel | white fluor | 3 g | 1019914 |
| | pigeon blue fluor | 3 g | 1019917 |
| | blue fluor | 3 g | 1019923 |
| Effect | orange fluor | 3 g | 1019915 |
| | smoke fluor | 3 g | 1019916 |
| | red brown fluor | 3 g | 1019918 |
| | light orange fluor | 3 g | 1019919 |
| | khaki fluor | 3 g | 1019920 |
| | olive fluor | 3 g | 1019921 |
| | grey fluor | 3 g | 1019922 |
| | dark brown fluor | 3 g | 1019924 |
| | yellow fluor | 3 g | 1019925 |
| Gingiva | GUM red purple | 3 g | 1019926 |
| | GUM rose | 3 g | 1019927 |
| | GUM rose pink | 3 g | 1019928 |
| | GUM coral red intensive | 3 g | 1019930 |
| | GUM red intensive | 3 g | 1019931 |
| Glaze | glaze magic fluor | 5 g | 1019960 |
| | glaze fluor | 5 g<br>7 g | 1019953<br>1019959 |
| | glaze | 5 g | 1019954 |
| Fluid | glaze liquid | 25 ml | 1019955 |
| | paste liquid | 25 ml | 1019956 |
| Brushes | Brush no. 2 Ø 2.2 mm, 8 mm | 1 x | 1019957 |
| | Brush no. 4 5.4 mm, 9 mm | 1 x | 1019958 |





| | Paste | | REF |
|---|---|---|---|
| Enamel | incisal 2 | 4 g | 1019932 |
| | n-light | 4 g | 1019935 |
| | transpa blue | 4 g | 1019936 |
| | clear | 4 g | 1019941 |
| | bleach 1 | 4 g | 1019942 |
| | glaze | 4 g | 1019943 |
| Dentine | A2 | 4 g | 1019933 |
| Character | transpa fosse | 4 g | 1019934 |
| Gingiva | GUM violet | 4 g | 1019944 |
| | GUM brown pink | 4 g | 1019945 |
| | GUM orange | 4 g | 1019946 |
| | GUM flamingo | 4 g | 1019947 |
| | GUM shell | 4 g | 1019948 |
| | GUM dark pink | 4 g | 1019949 |
| | GUM dark brown | 4 g | 1019950 |
| | GUM neutral | 4 g | 1019951 |
| | GUM C34 | 4 g | 1019952 |
| Transpa | transpa orange | 4 g | 1019937 |
| | transpa pink | 4 g | 1019938 |
| | transpa amber | 4 g | 1019939 |
| | opal | 4 g | 1019940 |




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# TECHNOLOGIE

## Subtractive and additive manufacturing

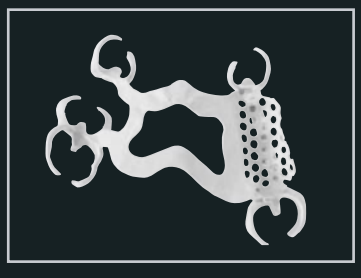


# PEEK BioSolution®

# BioBalance
## IN PROSTHETICS

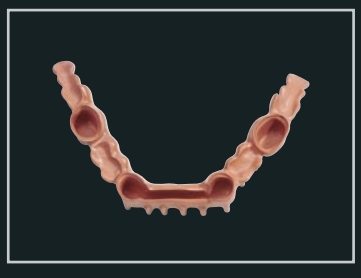






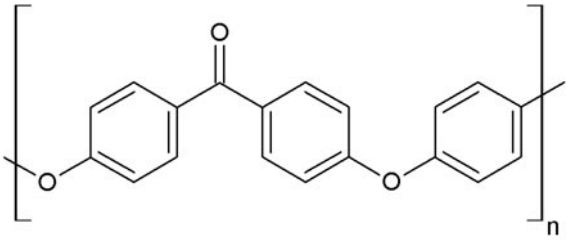











EU MEDICAL DEVICE CLASS IIb

## 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.

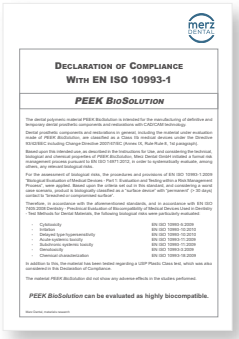
AREAS OF APPLICATION

- Hybrid abutments
- Gingiva formers
- Crowns and bridges
- Transversal connectors
- Sublingual brackets
- Retaining elements: Telescopic crowns, Attachments, Retaining clips, Bar constructions
- Frameworks for clasp dentures
- Denture bases
- Occlusal splints



### CONSTANT QUALITY CONTROL, SAFETY AND STABILITY DURING PRODUCTION PROCESS





DECLARATION OF COMPLIANCE
WITH EN ISO 10993-1

*PEEK BIOSOLUTION*

*PEEK BioSolution* can be evaluated as highly biocompatible.



CERTIFICATE

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
- Sterilisable (Validated method in accordance with EN ISO 17665)

### WEARING TIME WITHOUT LIMIT

- Suitable for the permanent, definitive and surgically invasive treatment

### ANTI-ALLERGENIC

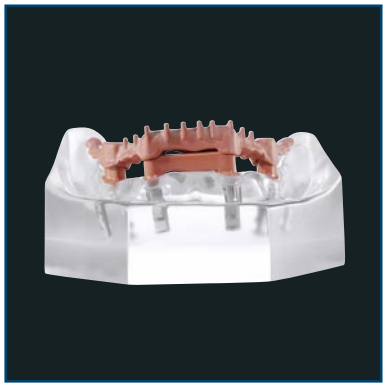
- Free from metal and monomer particularly suitable for allergy sufferers

### LOW SPECIFIC MATERIAL WEIGHT HUMAN BONE-LIKE

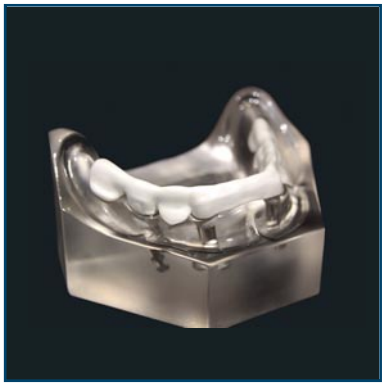
### AESTHETIC COLOR RANGE

- White
- A2/B2
- GUM

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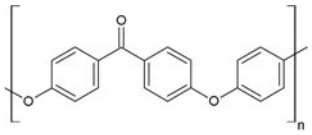






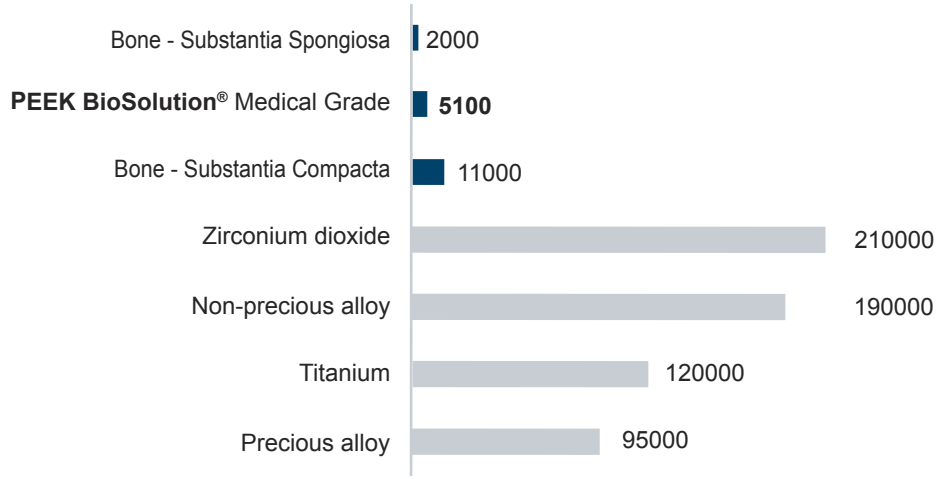
## Biobalance - Physiological

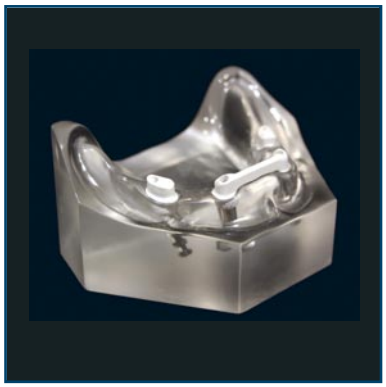
### PEEK BioSolution®
POLYETHER ETHER KETONE

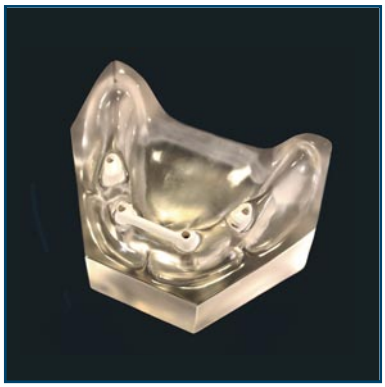


**BIOBALANCE - PHYSIOLOGICAL**

ELASTICITY - HUMAN BONE / DENTAL FRAMEWORK MATERIALS









# Medical grade

| PEEK BioSolution® - MEDICAL GRADE | White & A2/B2 | GUM |
|---|---|---|
| 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/m× | 3.7 kJ/m× |
| Charpy impact strength 1eU in accordance with EN ISO 179<br>no material failure | > 100 kJ/m× | > 100 kJ/m× |
| Vickers hardness acc. EN ISO 6507-1 | 32 HV 0.2 | 27 HV 0.2 |
| Ball indentation hardness EN ISO 2039-1<br>after 10 sec loading at 961 N | 385 MPa | 350 MPa |
| Total fracture work in accordance with EN ISO 20795-1<br>Standard testing for hI resins requires at least 900 J/m× | 1900 J/m× | 8500 J/m× |
| Fracture toughness in accordance with EN ISO 20795-1<br>Standard testing for hI resins requires at least 1.9 MPa x √ | 4.7 MPa x √*m* | 6.7 MPa x √*m* |
| Linear thermal expansion coefficient | 1.7 þ $10^{-5}$ /K | 1.7 þ $10^{-5}$ /K |
| Water absorption in accordance with ISO 62 | 0.4 % | 0.4% |
| Sliding friction coefficient | $Al_2O_3$ ┌ f = 0.13<br>$ZrO_2$ ┌ f = 0.13 | $Al_2O_3$ ┌ f = 0.09<br>$ZrO_2$ ┌ f = 0.10 |
| Cytotoxicity test in accordance with EN ISO 10993-5 | Max. value for biocompatibility (= 100 %) | |



| | 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 |

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| | A2/B2 | White | GUM |
|---|---|---|---|
| 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 |

CE 0482

# PEEK *NATURE*

## PREMIUM
## BIOBALANCE
## IN PROSTHETICS






**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
- High chemical resistance
- Proven biocompatibility

### 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

# PEEK



## 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
- 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 |

CE 0482

# M-PM® DISC

## DIGITAL PRECISION
## BRILLIANT AESTHETICS









# SUBTRACTIVE MANUFACTURING




CERTIFICATE

Biocompatibility Test

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® - **O**rganic **M**odified **P**olymer-**N**etwork - 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, gum shaded, in 16 V-classic or 4 Bleach shades, M-PM® Discs from Merz Dental offer every user numerous options and applications.

* Only the M-PM® Disc gum in color L1 (veined) contains additional biocompatible viscose fibers for the optical representation of a veined version.

### AESTHETIC TRANSLUCENCY
### EXACT FIT
### PROVEN BIOCOMPATIBILITY

- Long-term temporary crown & bridge restoration
- With regular monitoring by the practitioner, a wearing period of long-term provisional restorations of up to 3 years can be ensured
- Splints for therapeutic restorations of cranio-mandibular disorders and function diagnostics
- Denture bases
- 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 translucent

- 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 any time
- Lost moulds
- Drilling templates

#### GUM

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.

### 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 natural-looking light transmission with a chameleon effect and is therefore preventing aesthetical 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.











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

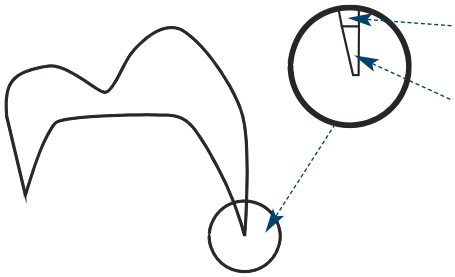
M-PM® Discs are manufactured under highest quality standards. Here, using the latest high pressure polymerization in multi-stage pressure and temperature curves highly cross-linked milling blanks are produced. This ensures optimal mechanical and chemical properties due to high cross-linking of the polymer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

### **O**RGANIC **M**ODIFIED **P**OLYMER **N**ETWORK **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%.

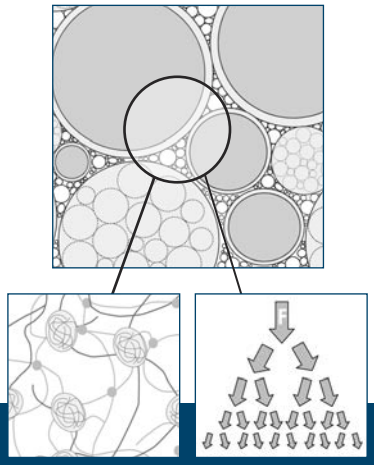
High elasticity, no chipping due to filler and fibre-free formulation. The material absorbs the forces acting on the temporary restoration. Crown and bridge abutments are relieved. OMP-N® has a very good plaque resistant surface compaction after polishing even with conventional polishers, polishing wheels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



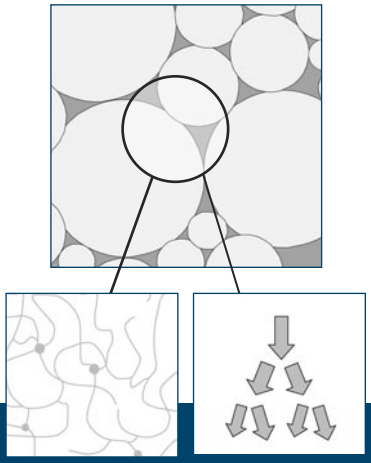
Most acrylic discs from other manufacturers fracture already at wall thicknesses < 200 µm.

The filler and fibre-free OMP-N® acrylic with its high degree of cross-linking enables a very delicate edge design on crowns and bridges.

**OMP-N®** Organic Modified Polymer-Network



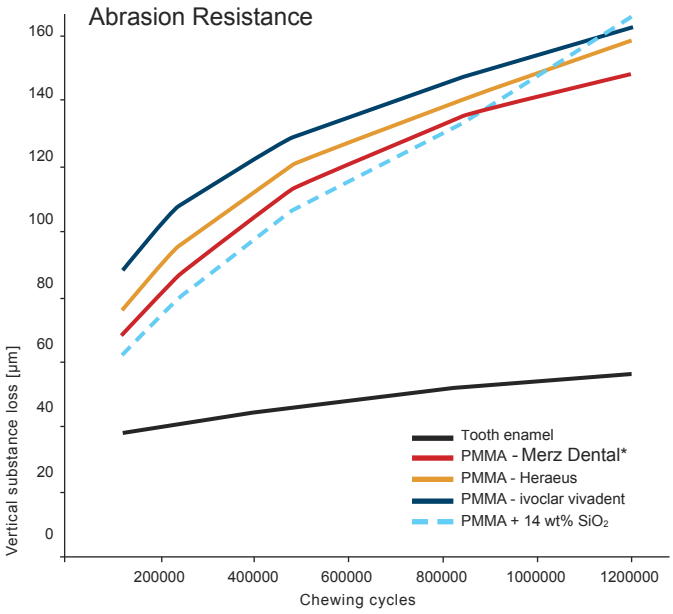
Conventional PMMA simply cross-linked



## 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 from 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

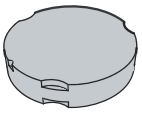
| Properties | Standard | Result |
|---|---|---|
| Density | 1.19 g/cm³ | EN ISO 1183-1 |
| Water solubility | 0.2 µg/mm³ | EN ISO 10477 |
| Flexural strength | 91.5 MPa / 96.6 MPa | EN ISO 10477 / EN ISO 20795-1 |
| Absorption | 26.5 µg/mm³ | EN ISO 10477 |
| Module of elasticity | 2773 MPa | EN ISO 20795-1 |



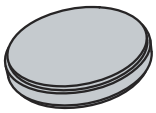
# M-PM® DISC

**FOR** (ALMOST) **EVERY MACHINE THE RIGHT GEOMETRY**

PMMA DISC MADE IN GERMANY

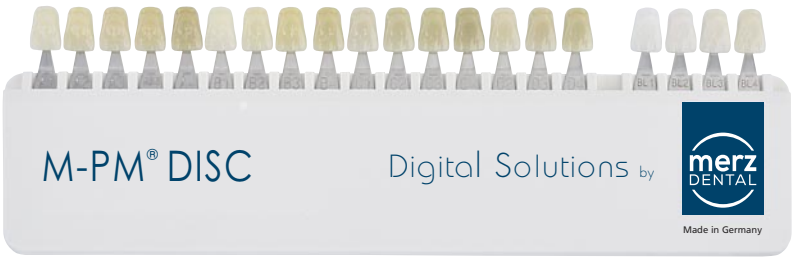


Ø 95 mm



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 | monochrome |
| ▶ clear / transparent<br>for bite splints, implant drilling templates, castings | CE 0482 | clear | clear |




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

| | Shade | REF |
|---|---|---|
| **Ø 95 mm x 16 mm** without step | clear / transparent | 1019206 |



suitable for Zirkonzahn® CAM

| | Shade | REF |
|---|---|---|
| **Ø 95 mm x 20 mm** without step | A1 | 1019164 |
| | A2 | 1019165 |
| | A3 | 1019166 |
| | A3.5 | 1019167 |
| | A4 | 1019168 |
| | B1 | 1019169 |
| | B2 | 1019170 |
| | B3 | 1019171 |
| | B4 | 1019172 |
| | C1 | 1019173 |
| | C2 | 1019174 |
| | C3 | 1019175 |
| | C4 | 1019176 |
| | D2 | 1019177 |
| | D3 | 1019178 |
| | D4 | 1019179 |
| | Bleach BL1 | 1019180 |
| | Bleach BL2 | 1019181 |
| | Bleach BL3 | 1019182 |
| | Bleach BL4 | 1019183 |
| | clear / transparent | 1019184 |



suitable for Zirkonzahn® CAM

| | Shade | REF |
|---|---|---|
| **Ø 95 mm x 25 mm** without step | A2 | 1019186 |
| | A3 | 1019187 |
| | A3.5 | 1019188 |
| | A4 | 1019189 |
| | pink | 1019207 |



suitable for Zirkonzahn® CAM

| | Shade | REF |
|---|---|---|
| **Ø 98.5 mm x 16 mm** with step | A1 | 1019084 |
| | A2 | 1019085 |
| | A3 | 1019086 |
| | A3.5 | 1019087 |
| | A4 | 1019088 |
| | B1 | 1019089 |
| | B2 | 1019090 |
| | B3 | 1019091 |
| | B4 | 1019092 |
| | C1 | 1019093 |
| | C2 | 1019094 |
| | C3 | 1019095 |
| | C4 | 1019096 |
| | D2 | 1019097 |
| | D3 | 1019098 |
| | D4 | 1019099 |
| | Bleach BL1 | 1019100 |
| | Bleach BL2 | 1019101 |
| | Bleach BL3 | 1019102 |
| | Bleach BL4 | 1019103 |
| | clear / transparent | 1019080 |



XY

| | Shade | REF |
|---|---|---|
| **Ø 98.5 mm x 20 mm** with step | A1 | 1019104 |
| | A2 | 1019105 |
| | A3 | 1019106 |
| | A3.5 | 1019107 |
| | A4 | 1019108 |
| | B1 | 1019109 |
| | B2 | 1019110 |
| | B3 | 1019111 |
| | B4 | 1019112 |
| | C1 | 1019113 |
| | C2 | 1019114 |
| | C3 | 1019115 |
| | C4 | 1019116 |
| | D2 | 1019117 |
| | D3 | 1019118 |
| | D4 | 1019119 |
| | Bleach BL1 | 1019120 |
| | Bleach BL2 | 1019121 |
| | Bleach BL3 | 1019122 |
| | Bleach BL4 | 1019123 |
| | clear / transparent | 1019081 |



| | Shade | REF |
|---|---|---|
| **Ø 98.5 mm x 25 mm** with step | A1 | 1019240 |
| | A2 | 1019236 |
| | A3 | 1019237 |
| | A3.5 | 1019403 |
| | A4 | 1019404 |
| | B1 | 1019238 |
| | B2 | 1019239 |
| | B3 | 1019407 |
| | B4 | 1019408 |
| | C1 | 1019409 |
| | C2 | 1019410 |
| | C3 | 1019411 |
| | C4 | 1019412 |
| | D2 | 1019413 |
| | D3 | 1019414 |
| | D4 | 1019415 |
| | Bleach BL1 | 1019416 |
| | Bleach BL2 | 1019417 |
| | Bleach BL3 | 1019418 |
| | Bleach BL4 | 1019419 |
| | pink | 1019208 |
| | pink 3 | 1019246 |
| | L1 (veined) | 1019850 |



| | Shade | REF |
|---|---|---|
| **Ø 98.5 mm x 30 mm** with step | A1 | 1019420 |
| | A2 | 1019421 |
| | A3 | 1019422 |
| | A3.5 | 1019423 |
| | A4 | 1019424 |
| | B1 | 1019425 |
| | B2 | 1019426 |
| | B3 | 1019427 |
| | B4 | 1019428 |
| | C1 | 1019429 |
| | C2 | 1019430 |
| | C3 | 1019431 |
| | C4 | 1019432 |
| | D2 | 1019433 |
| | D3 | 1019434 |
| | D4 | 1019435 |
| | Bleach BL1 | 1019436 |
| | Bleach BL2 | 1019437 |
| | Bleach BL3 | 1019438 |
| | Bleach BL4 | 1019439 |
| | 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 |



pink 3

L1 (veined)

pink

CE 0482

# M-PM® crystal

## A CLEAR SOLUTION







EU MEDICAL DEVICE CLASS IIa

# M-PM® crystal

## A CLEAR SOLUTION FOR PRICE-CONSCIOUS PROFESSIONALS

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

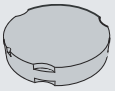
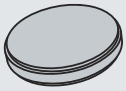
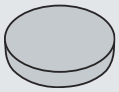
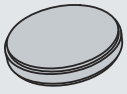
### FEATURES and BENEFITS

- Crystal clear, color stable
- Certified biocompatibility
- Free from inorganic and organic peroxides such as 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, branched 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 / mm³ |
| Water solubility | EN ISO 20795-1 | < 1.6 µg / mm³ |



| | | 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 |




CE 0482

# artBloc® Temp

for CEREC® and inLab®

## PMMA-Block


artBloc® Temp
color B1
LOT 23208
artBloc® Temp
color
LOT 23208








# 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 an 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.

### 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

### AREAS OF APPLICATION

- Single and partial restorations
- 4-unit bridges
- Immediate implant restorations
- Long-term temporary as well as semipermanent pre-prosthetic restorations
- With regular monitoring by the practitioner, a wearing period of long-term provisional restorations of up to 3 years can be ensured

### TECHNICAL DATA

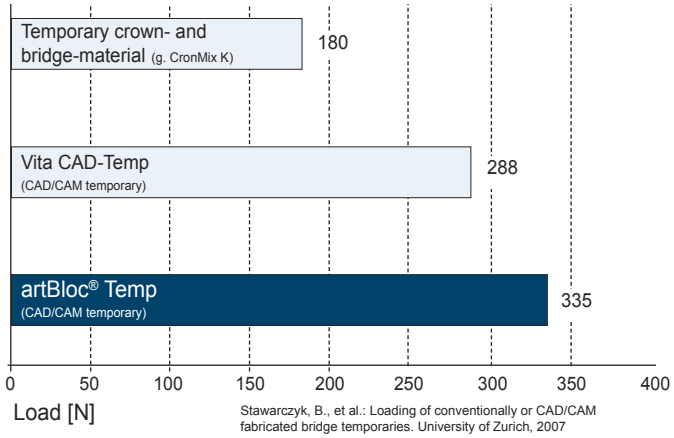
For software and technical requirements, milling configuration etc. please visit www.merz-dental.de

### 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 |

CE 0482

LOADING OF THREE-UNIT TEMPORARIES




Stawarczyk, B., et al.: Loading of conventionally or CAD/CAM fabricated bridge temporaries. University of Zurich, 2007

Block dimensions: 15.5 x 19.0 x 39.0 mm

| Content \ Shade | 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 |

| Content \ Shade | 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 |

| Content \ Shade | 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



MMA FREE

BPA FREE

THF-MA FREE

## 3D LIQUIDS




# READY 2 PRINT

R2P

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



# ADDITIVE MANUFACTURING

R2P Ready 2 Print




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 - 405 nm

### DELIVERY FORM / COLOR

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




Without fillers & pigments

TPO free



# M-PRINT Model 2.0

## PRODUCTION OF MODELS 2.0

Opaque, light- and moisture-stable, light-curing 3D printing resin

### AREAS OF APPLICATION

- Models
- Model stumps
- Models for the thermoforming technique
- Very precise, true-to-detail master, stump and /or functional models with finest and smooth surface structure

### FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Very dimensionally stable, precisely grindable preparation lines optimally visible through opacity
- High efficiency - thanks to the low-viscosity setting of the resin for lower material consumption and short post-processing
- Elegant appearance - suitable for display and delivery models
- Highest thermal stability
- High strength and edge stability
- Brilliant image sharpness
- Now also optimized for LCD printers
- Designed for tray-based photopolymerization at 385 nm - 405 nm

### DELIVERY FORM / COLOR

- 1000 g, shark-gray REF 1084022
- 1000 g, desert REF 1084021

# ADDITIVE MANUFACTURING

R2P Ready 2 Print




Without fillers & pigments

TPO free






## M-PRINT Model 2.0

### PRODUCTION OF MODELS 2.0

Opaque, light- and moisture-stable, light-curing 3D printing resin

#### AREAS OF APPLICATION

- Models
- Model stumps
- Models for the thermoforming technique
- Very precise, true-to-detail master, stump and /or functional models with finest and smooth surface structure

#### 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
- Thermal stability
- High efficiency - thanks to the low-viscosity setting of the resin for lower material consumption and short post-processing
- High strength and edge stability
- Brilliant image sharpness
- Now also optimized for LCD printers
- Designed for tray-based photopolymerization at 385 nm - 405 nm

#### DELIVERY FORM / COLOR

- 500 g, deep-black REF 1084023
- 1000 g, deep-black REF 1084024

CE

## M-PRINT Model ISO

### 3D MODEL ISOLATION

Ready-to-use isolating agent between 3D printed acrylate-based resin models (including filament) as well as orthodontic & denture acrylics (cold-cure polymer) and composite veneering materials.

#### AREAS OF APPLICATION

- 3D model isolation as a separating agent between 3D printed resins against orthodontic & denture acrylics (cold-cure polymer) and filament and composite veneering materials.

#### FEATURES and BENEFITS

- Good visual control over isolated area thanks to the blue color
- Saves time and material, even application, no puddle formation
- No problem with blocked-out areas, also adheres to and isolates wax
- Protects model from occlusion color
- Water-soluble, can be washed off without any residue

#### DELIVERY FORM / COLOR

- 100 ml, color blue REF 1084117

CE




Medical Device Class I

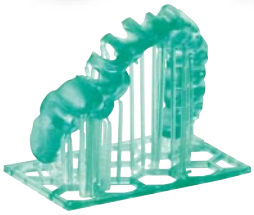
Matched to the production of digital dentures with the Baltic Denture System






Medical Device Class I

Without fillers & pigments



## M-PRINT TryIn

### TRY-INS AND INTERIM PROSTHESES

Light-curing, biocompatible 3D printing resin for the production of try-ins and interim prosthese for the intraoral check-up of digitally designed dentures.

#### AREAS OF APPLICATION

- Try-in and interim prostheses for removable full and partial dentures (maximum wear period 30 days)
- 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
- TPO free
- Free from fillers and pigments
- Sedimentation-free
- Fluorescent (ivory)
- 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 - 405 nm

#### DELIVERY FORM / COLOR

- 500 g, color ivory (A2/A3) REF 1084045
- 1000 g, color ivory (A2/A3) REF 1084046
- 500 g, color gum REF 1084047
- 1000 g, color gum REF 1084048

CE

## 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 andcontrolled insertion of dental implants

#### 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 surgically precise and controlled insertion
- 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 spring-green 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

CE

# ADDITIVE MANUFACTURING

R2P Ready 2 Print




Medical Device Class I

Layer thicknesses up to 150 µm






Medical Device Class IIa

Unlimited wearing time



## M-PRINT Tray

### INDIVIDUAL IMPRESSION TRAYS

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

AREAS OF APPLICATION

- Individual functional trays and impression trays
- Bite registrations

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 - 405 nm

DELIVERY FORM / COLOR

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

CE

## 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

FEATURES and BENEFITS

- Ready 2 Print - no shaking necessary
- Biocompatibility tested according to EN ISO 10993-1
- 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

CE 0482

# OVERVIEW OF PRODUCT RANGE

| M-PRINT | Areas of application | MDC* | Color | Viscosity | Flexural strength | Module of elasticity | Glass transition | Vickers hardness | Wave-length | Layer thickness |
|---|---|---|---|---|---|---|---|---|---|---|
|  Model 2.0 | • Models<br>• Model stumps<br>• Models for the thermoforming technique and functional models | – | • deep black<br>• shark-gray<br>• desert | 1250 ± 150 mPa·s<br>1250 ± 150 mPa·s | 128 ± 5 MPa<br>90 ± 5 MPa | 3200 ± 200 MPa<br>2150 ± 150 MPa | – | – | 385 nm - 405 nm | 25 µm<br>50 µm<br>100 µm |
|  Model | • Models<br>• Model stumps<br>• Models for splints and functional models | – | • ash-gray<br>• taupe-gray<br>• sand | 950 ± 100 mPa·s | 68 ± 2 MPa | 1600 ± 100 MPa | – | – | 385 nm / 405 nm | 25 µm<br>50 µm<br>100 µm |
|  Tray | • Individual functional trays and impression trays<br>• Bite registrations | I | • aqua<br>• hot-pink | 900 ± 100 mPa·s | 116 ± 10 MPa | 2900 ± 300 MPa | 91 °C | – | 385 nm / 405 nm | 50 µm<br>100 µm<br>150 µm |
|  TryIn | • Try-Ins and interim prostheses (maximum wear period: 30 days) | I | • ivory<br>• gum | 1200 ± 150 mPa·s | 81 ± 5 MPa | 1450 ± 100 MPa | – | – | 385 nm / 405 nm | 50 µm<br>100 µm |
|  Surgical guide HT | • Sterilisable drilling templates | I | • spring-green | 650 ± 100 mPa·s | 130 ± 5 MPa | 3150 ± 130 MPa | – | – | 385 nm | 25 µm<br>50 µm<br>100 µm |
|  Splint | • Occlusal / bite splints | IIa | clear | 825 ± 100 mPa·s | 70 ± 6 MPa | 1800 ± 200 MPa | 93 °C | 20 ± 1 HV0,2 | 385 nm | 25 µm<br>50 µm<br>100 µm |
|  Cast | • Cast objects of all kinds | – | • purple | 1000 ± 200 mPa·s | 104 ± 3 MPa | 2900 ± 200 MPa | 86 °C | – | 385 nm | 25 µm<br>50 µm<br>100 µm |
|  Proto | • 3D printed objects of all kinds | – | clear<br>• cobalt-blue | 920 ± 100 mPa·s | 108 ± 4 MPa | 3000 ± 100 MPa | 93 °C | 20 ± 1 HV0,2 | 385 nm | 25 µm<br>50 µm<br>100 µm |

*Medical Device Class

# PRINTER COMPATIBILITY OVERVIEW

Updated overview available at:

**www.merz-dental.de/en/digital-solutions/3d-printing/services/printer-compatibility**




M-PRINT 3D printing liquids are generally compatible with DLP printers operating at a wavelength of 385 nm and, to some extent, with LCD printers operating at 405 nm. Print parameters are available for the following printers:

Users are responsible for using the product themselves. Merz Dental assumes no liability and / or guarantee for the use of non-system components and / or components that have not been tested or for incorrect results, as the manufacturer has no influence on processing. Any claims for damages that may still arise relate exclusively to the value of our products. The company and product names of third parties mentioned are trademarks or registered trademarks of the respective manufacturers. Quoting such designations without reference to a trademark or similar (registered and / or protected) should not be considered an infringement of the intellectual property rights of these designations, nor should they be regarded as damaging to the companies that own these rights.

| | TECHNICAL RESINS | | | | | | MEDICAL RESINS | | | | | | TECHNICAL RESINS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Medical device class | | | | | | | I | I | I | I | I | IIa | | | |
| **M-PRINT** compatible ✔  | Model 2.0  deep-black | Model 2.0  desert | Model 2.0  shark-gray | Model  ash-gray | Model  sand | Model  taupe-gray | Tray  aqua | Tray  hot-pink | TryIn  ivory | TryIn  gum | Surgical guide HT  spring-green | Splint  clear | Cast  purple | Proto  clear | Proto  cobalt-blue |
| Download Printparameters | REF 500 g | 1084023 | 1084021 | 1084022 | 1084017 | 1084020 | 1084018 | 1084035 | 1084036 | 1084045 | 1084047 | 1084041 | 1084050 | 1084010 | 1084025 | 1084026 |
| | 1000 g | 1084024 | | | | | | | | 1084046 | 1084048 | | | | | |
| **Wavelength** | DLP | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm | 385 nm |
| | LCD | 405 nm | 405 nm | 405 nm | 405 nm | 405 nm | 405 nm | 405 nm | 405 nm | 405 nm | 405 nm | | | | | |
|  **rapidshape** D20+ / D30+ / D50+ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **Asiga** Pico / MAX / MAX 2 / PRO / PRO 4K / Ultra | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **Straumann** PRO20 / P30+ / P50+ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **SHERA** print 20 pro / print 30 / print 50 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **DMG** DentaMile Desk RS-5 / 3Delite | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **W2P** SolFlex 163 / 350 / 363+ / 650 | | | | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **W2P** SolFlex 250 UHD | | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **W2P** SolLab 370 | | | | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **Nexa3D** XiP | | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | |
|  **Carima** IMD | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **Voco** SolFlex 170 / 350 / 650 | | | | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **DEKEMA** trix print² | | | | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **Ackuretta** FreeShape 120 | | | | | | | ✔ | ✔ | | | | | ✔ | ✔ | ✔ |
|  **Anycubic** Photon Mono M7Pro* | ✔ | ✔ | ✔ | | | | | | | | | | | | |
|  **Anycubic** Photon Mono M5* | | | | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | | |
|  **Anycubic** Photon Mono X 6K* | | | | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ | | ✔ | | |
|  **Phrozen** 8K Mini | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | |
|  **Zirkonzahn** P4000 | | | | | | ✔ | ✔ | ✔ | | | | | | | |
|  **Elegoo** Saturn 3 Ultra* | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | |
|  **Elegoo** Mars 4 Ultra* | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | |
|  **MiiCraft** ALPHA 2K | | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **MiiCraft** ALPHA 2,5K | | | | ✔ | ✔ | ✔ | | | ✔ | ✔ | | | ✔ | ✔ | ✔ |
|  **MiiCraft** PRIME | | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
|  **MiiCraft** Hyper 50 / 80 / 125 | | | | | | | | | ✔ | ✔ | | | ✔ | | |
|  **Shining 3D** AccuFab-L4D | | | | | ✔ | ✔ | ✔ | ✔ | | | | | | | |
|  **Creality** HALOT-X1 | ✔ | | | | | ✔ | | | | | | | | | |

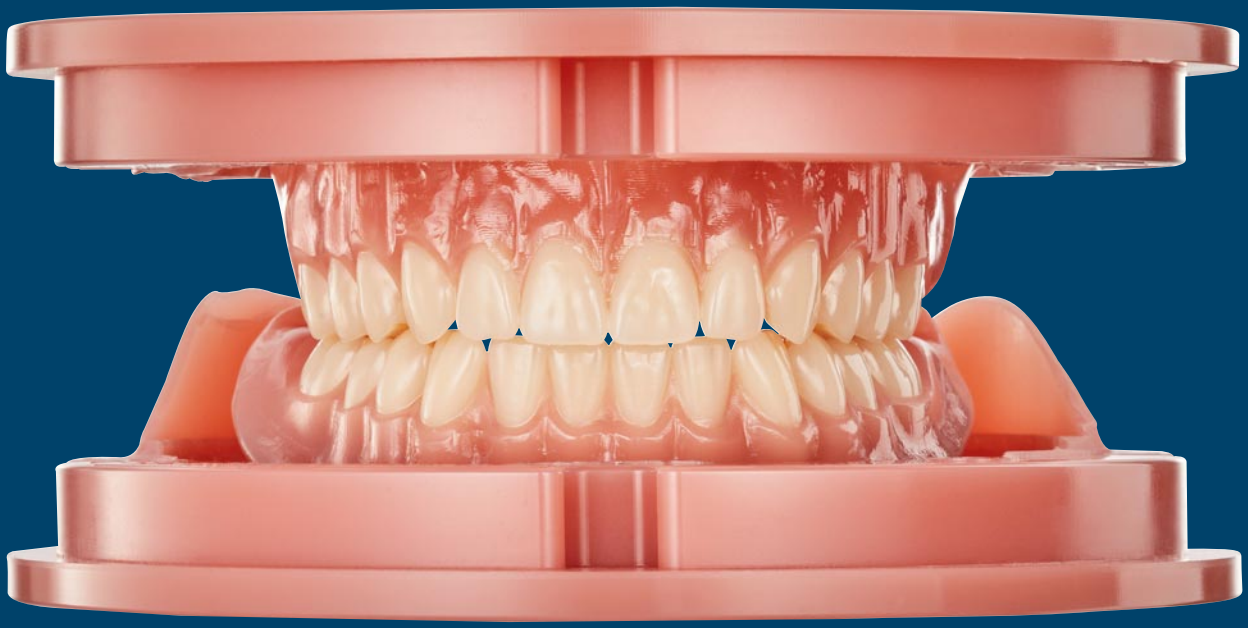
Recommendation for printing parameters

*Recommendation for printing parameters

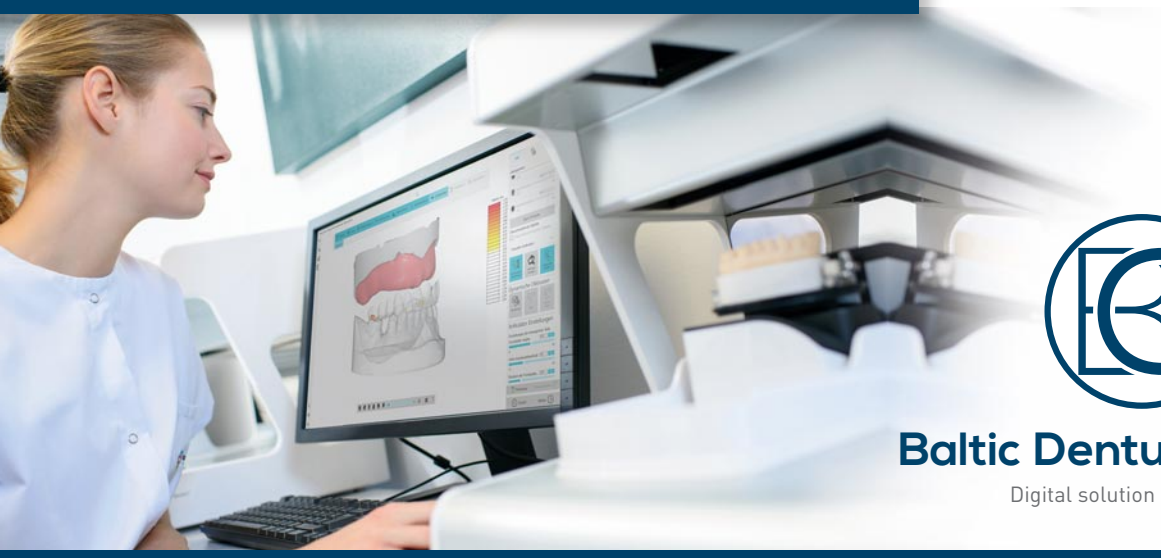
Baltic Denture System

# DIGITAL SOLUTION FOR DENTURES

**Ø 98.5 mm**
with palatinal enlarged milling area



# 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:



**Reline Impression**

Make new from old - simple and fast reline impression using the old denture



**Conventional Impression**

Simply using existing structures and processes



Download [BD]KEY® Stl files

**[BD]KEY® Impression**

Functional impression and alignment to the Camper plane using 3D printed impression trays and the [BD]KEY® Plane & [BD]KEY® Fin Sets







SCAN › DESIGN › MANUFACTURING



## BDCreator® *PLUS*

### The process-integrated CAD software

- Full dentures for all Angle classes (I-III)
- Unimaxillary (single) dentures
- Attachment supported overdentures
- Full immediate and interim dentures
- Travel prostheses

**NEW:**

- Simplified model analysis function
- Optimized assessment of the center of the face
- Automated gingival design process

FEATURES

- All common workflows for the digital production of dentures in one software
- No interruption of the workflow by third-party software for rework
- Efficient design in BDLoad® or individuality through digital repositioning of tooth rows or individual teeth
- Fully adjustable virtual articulator with adjustment of occlusal correction pathways and mesh analysis
- 120 new tooth alignments based on the artegral® life (REF 1032143)
- Open production: Printing or milling in BDLoad®, BDLoad® XP, via FileSplit sprocket and base or pockets
- Minimization of possible sources of error at the beginning of the workflow, through digitally supported individual functional spoons, bite templates and support pen registries

| DELIVERY FORM | REF |
|---|---|
| • BDCreator® *PLUS* CAD Licence incl. Mesh Editor and BDManager 360° | 1032145 |
| • Add-on "virtual articulator" | 1032148 |
| • Add-on "work preparation" | 1032139 |
| • Add-on "artegral® life PreSets" | 1032143 |



BDCreator® *PLUS*

- One software
- All indications
- Unlimited possibilities



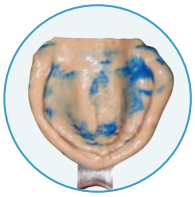
BDCreator® *PLUS* brochure
REF 1092168

# BALTIC DENTURE SYSTEM





**Reline Impression**
Make new from old - simple and fast reline impression using the old denture



**Conventional Impression**
Simply using existing structures and processes



**[BD]KEY® Impression**
Functional impression and alignment to the Camper plane using 3D printed impression trays and the [BD]KEY® Plane & [BD]KEY® Fin Set



**Intraoral-scan**




**Extraoral-scan**

**Work preparation**
- Functional tray
- Bite registration
- Pin-point registration

**Try-in**
- Try-in
- Immediate denture
- Interim denture

**Definitive dentures**
- Upper and lower complete dentures
- Single arch complete denture
- Implant-supported denture
- Overdenture
- Travel prosthesis




**Additive production**

**Subtractive production**





Rows of teeth set in the [BD]Load®

Integrated occlusion concept and individual positioning of anteriors in the [BD]Load® XP

Positioning of individual teeth or groups of teeth using the **FileSplit** procedure



Ø 98.5 mm
with palatinal enlarged milling area

# BDLoad® / BDLoad® XP

## WORLDWIDE UNIQUE INDUSTRIAL PREFABRICATED MILLING BLANK WITH INTEGRATED SET-UP CONCEPT IN LINGUALIZED OCCLUSION WITH UNILATERAL SUPPORT

Highest quality of bond between fully anatomical 4-layer anteriors, 3-layer posteriors and denture base material optionally made of OMP-N® or HIGH IMPACT, made in Germany.
Optionally applicable with individual anterior tooth positioning (BDLoad XP). Simplified production of digital dentures with reduced workload thanks to process-integrated CAD software BDCreator *PLUS*.

FEATURES and BENEFITS

- Fast production, only one milling process
- No interdental closing
- No model fabrication necessary
- No manual grinding required
- No polymerization shrinkage
- Residual monomer content below 1%, reduced allergenic potential
- 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
- Diameter: 98.5 mm
- 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



**BDLoad®**
4-layered anteriors
3-layered posteriors



**BDLoad® XP**
Enables individual positioning of the anteriors



1092482 / 2026-10

**www.merz-dental.com**

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