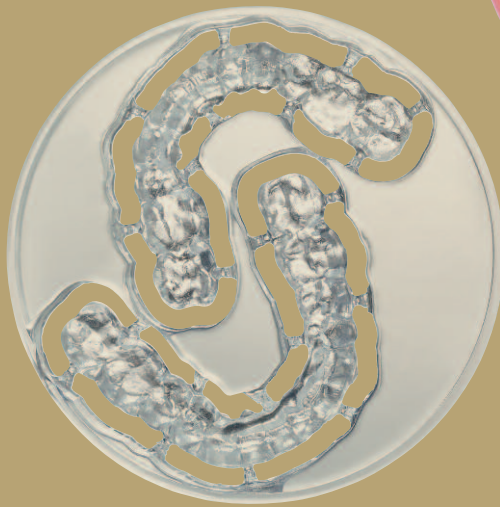
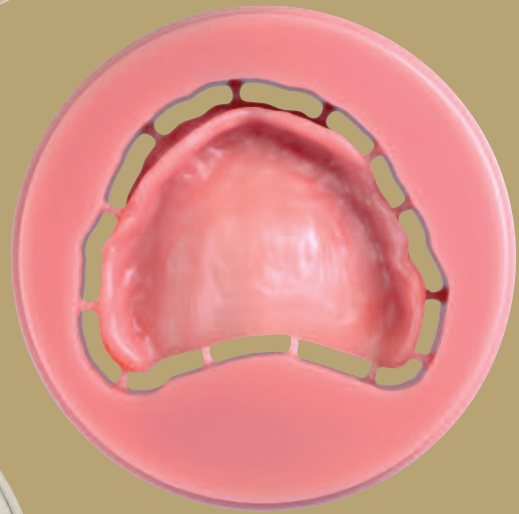


M-PM™ DISC

DIGITAL PRECISION
BRILLIANT AESTHETIC





M-PM™ DISC

BIOCOMPATIBLE, DURABLE, VERSATILE, AESTHETIC

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

Wearing time: up to 3 years

WIDE RANGE OF APPLICATION THANKS TO

AESTHETIC TRANSLUCENCY

EXACT FIT

PROVEN BIOCOMPATIBILITY

- long-term temporary crown & bridge restoration
anterior and posterior area with up to two pontics
- anterior and posterior veneers for long-term temporary restorations, aesthetic try-ins
- long-term temporary and semi-permanent crown & bridge restorations
anterior and posterior area with up to two pontics
- splints for therapeutic restorations of cranio-mandibular disorders and function diagnostics
- denture bases



CONVINCING FEATURES AND BENEFITS

MATERIAL

Safety ensures the M-PM™ Disc during the pre-prosthetic and temporary restorations phase through tested biocompatibility with minimal free methyl methacrylate parts < 1%. Because of its shock absorption, OMP-N® is especially suitable during the healing time as initial restoration on immediate implants. Of further advantage is its plaque resistance and minimal water absorption for the soft tissue conditioning, so that the later permanent restoration is in harmony with the red-white aesthetic. A positive observational study of the University of Jena approves the wearing time of OMP-N® processed temporaries for up to 36 months.

AESTHETIC

No aesthetic compromises have to be made with the M-PM™ Discs during the temporary and long-term restoration.




Temporary crowns and bridges milled from translucent shaded M-PM™ Discs adapt harmonically to the remaining teeth without any colour individualisation. The high-purity material allows a natural looking - chameleon effect like - light transmission and is therefore preventing aesthetical and psychosocial disabilities 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.



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

 TOOTH SHADES	 CLEAR	 GINGIVAL		
<table border="0"> <tr> <td data-bbox="175 1825 391 1904">translucent 16 V-Classic shades A1-D4</td> <td data-bbox="391 1825 619 1904">translucent Bleach shades BL1-BL4</td> </tr> </table> <ul style="list-style-type: none"> ■ for long-term temporary crown & bridge restorations even with thin crown margins < 50 µm ■ for long-term temporary veneers thanks to high fracture resistance very stable, even with a wall thickness < 50 µm 	translucent 16 V-Classic shades A1-D4	translucent Bleach shades BL1-BL4	<p>transparent / clear (no colorants)</p> <ul style="list-style-type: none"> ■ splint therapy, with PMMA acrylic adjustable at anytime ■ milled casting parts 	<p>pink</p> <ul style="list-style-type: none"> ■ denture bases with highest CAD/CAM manufactured precision ■ relineable with denture acrylics of PMMA basis
translucent 16 V-Classic shades A1-D4	translucent Bleach shades BL1-BL4			



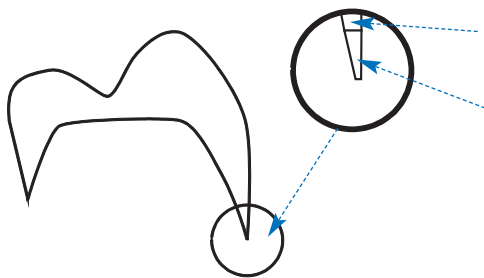
DIGITAL PRECISION. BRILLIANT AESTHETIC. FOR LONG-TERM TEMPORARY RESTORATIONS AND SPLINT THERAPY

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 polymerisation in multi-stage pressure and temperature curves highly cross-linked milling blanks are produced. This ensures optimal mechanical and chemical properties due to high cross-linking of the polymer chains with the highest porosity freedom.

Organic Modified Polymer Network OMP-N® - for more quality

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



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

The filler and fiber-free OMP-N® of M-PM™ Discs, with wall thickness stability up to a thickness of 50 µm offers safety and thus an excellent marginal fit.

In the submicroscopic area spatially linked macromolecule structures occupy the spaces between larger polymer beads in the chemical bond. Therefore and in addition to other measures during the PMMA disc manufacture process the residual monomer content is reduced to less than 1%.

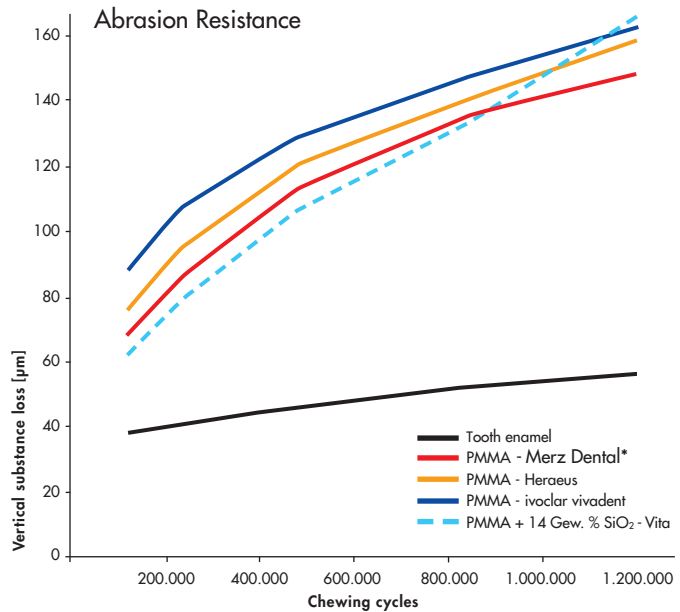
High elasticity, no chipping due to filler and fiber-free formulation. The material absorbs the forces acting on the temporary restoration. Crown and bridge abutments are relieved. OMP-N® has a very good, plaque resistant surface compaction after polishing even with conventional polishers, polishing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

EU MEDICAL DEVICES CLASS IIa

PREMIUM QUALITY

- highly cross-linked
- abrasion resistant
- tissue friendly
- plaque resistant
- chemically stable
- translucent* and colour stable
- low water absorption
- high bond to PMMA base acrylic
- temperature resistant temporarily up to approx. 300 °C without any heat-related white discoloration
- easy handling and polishing
- free form inorganic fillers and fibres
- resilient and shock absorbing

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

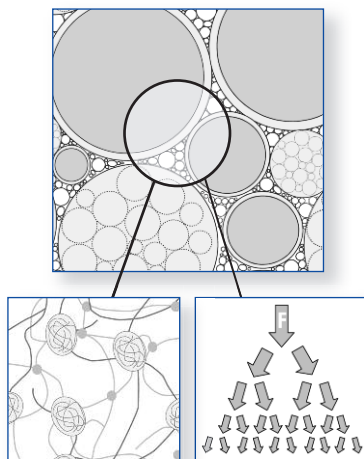


*OMP-N[®] specially processed interpenetrated network

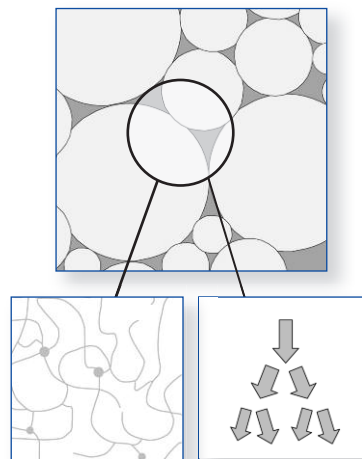
Graph based on Ghazal et al.: Two-body wear of resin and ceramic denture teeth in comparison to human enamel. Dental Materials 4 (2007) 24, p. 502-507



OMP-N[®] Organic Modified Polymer-Network



Conventional PMMA single cross-linked



Density	1.19 g/cm ³	EN ISO 10477
Solubility	0.2 µg/mm ³	EN ISO 10477
Flexural strength	91.5 MPa / 96.6 MPa	EN ISO 10477 / EN ISO 20795-1
Absorption	26.5 µg/mm ³	EN ISO 10477
Module of elasticity	2,773 MPa	EN ISO 20795-1

PREMIUM HIGH TRANSLUCENT PMMA DISCS
100% MADE IN GERMANY



M-PM™ DISC

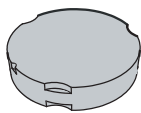
A1-D4 BL1-BL4



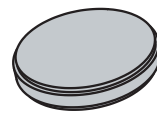
pink



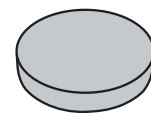
clear



Ø 95 mm
20 mm



Ø 98,5 mm
16 mm / 20 mm








Ø 100 mm
16 mm / 20 mm

▶ 16 V-Classic shades A1-D4	€ 0482	translucent	translucent	translucent
▶ 4 Bleach shades BL1-BL4	€ 0482	translucent	translucent	translucent
▶ Pink	€ 0482	monochrome, 25 mm	monochrome, 25 mm	monochrome, 25 mm
▶ Clear / transparent for bite splints, implant drilling templates, casting parts	€ 0482	clear	clear	clear

EU MEDICAL DEVICES CLASS IIa

PRODUCT RANGE

Dimension	Shade	REF	Dimension	Shade	REF	Dimension	Shade	REF
Ø 95 mm x 20 mm without step  suitable for Zirkonzahn®	A1	1019164	Ø 98.5 mm x 16 mm with step 	A1	1019084	Ø 98.5 mm x 20 mm with step 	A1	1019104
	A2	1019165		A2	1019085		A2	1019105
	A3	1019166		A3	1019086		A3	1019106
	A3.5	1019167		A3.5	1019087		A3.5	1019107
	A4	1019168		A4	1019088		A4	1019108
	B1	1019169		B1	1019089		B1	1019109
	B2	1019170		B2	1019090		B2	1019110
	B3	1019171		B3	1019091		B3	1019111
	B4	1019172		B4	1019092		B4	1019112
	C1	1019173		C1	1019093		C1	1019113
	C2	1019174		C2	1019094		C2	1019114
	C3	1019175		C3	1019095		C3	1019115
	C4	1019176		C4	1019096		C4	1019116
	D2	1019177		D2	1019097		D2	1019117
	D3	1019178		D3	1019098		D3	1019118
	D4	1019179		D4	1019099		D4	1019119
	Bleach BL1	1019180		Bleach BL1	1019100		Bleach BL1	1019120
	Bleach BL2	1019181		Bleach BL2	1019101		Bleach BL2	1019121
	Bleach BL3	1019182		Bleach BL3	1019102		Bleach BL3	1019122
	Bleach BL4	1019183		Bleach BL4	1019103		Bleach BL4	1019123
clear / transparent	1019084	clear / transparent	1019080	clear / transparent	1019081			
Ø 95 mm x 25 mm	pink	1019207				Ø 98.5 mm x 25 mm	pink	1019208

Dimension	Shade	REF	Dimension	Shade	REF
Ø 100 mm x 16 mm without step 	A1	1019124	Ø 100 mm x 20 mm without step 	A1	1019144
	A2	1019125		A2	1019145
	A3	1019126		A3	1019146
	A3.5	1019127		A3.5	1019147
	A4	1019128		A4	1019148
	B1	1019129		B1	1019149
	B2	1019130		B2	1019150
	B3	1019131		B3	1019151
	B4	1019132		B4	1019152
	C1	1019133		C1	1019153
	C2	1019134		C2	1019154
	C3	1019135		C3	1019155
	C4	1019136		C4	1019156
	D2	1019137		D2	1019157
	D3	1019138		D3	1019158
	D4	1019139		D4	1019159
	Bleach BL1	1019140		Bleach BL1	1019160
	Bleach BL2	1019141		Bleach BL2	1019161
	Bleach BL3	1019142		Bleach BL3	1019162
	Bleach BL4	1019143		Bleach BL4	1019163
clear / transparent	1019082	clear / transparent	1019083		
		Ø 100 mm x 25 mm	pink	1019209	