

Zirconia and Glaze/Stain kit information

Bloomden® 3D Pro Multilayer Zirconia

3D Pro multilayer zirconia's available in 98mm, 95mm and 92*75mm thickness.

Thickness	Diameter
12mm	98mm
14mm	98mm
16mm	98mm
18mm	98mm
20mm	98mm
22mm	98mm
25mm	98mm

Thickness	Diameter
12mm	95mm
14mm	95mm
16mm	95mm
18mm	95mm
20mm	95mm
22mm	95mm
25mm	95mm

Thickness	Diameter
12mm	92*75mm
14mm	92*75mm
16mm	92*75mm
18mm	92*75mm
20mm	92*75mm
25mm	92*75mm



Bloomden Paste Glaze/Stain Kit

For the external stain of zirconia full crown, Bloomden has launched a set of external glaze paste with easy operation and realistic effects.



Item	Description
Basic Kit	This kit includes 4 Basic colors, White, Glaze and 2 bottles of Glazing Liquid.

Item	Description
Aesthetic Kit	This kit includes 4 Basic colors, White, White c, Glaze, Orange 1, Orange 2, Yellow, Terracotta, Blue1, Blue 2, Black, Mauve, Brown, Pink R and 2 bottles of Glazing Liquid.



Bloomden® 3D Pro High Translucent Multilayer Zirconia



Lifelike Natural Gradient Technology

The performance for Aesthetics and Strength



Better trust Better Smile

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CAD/CAM Solution Provider
Globe operation Center
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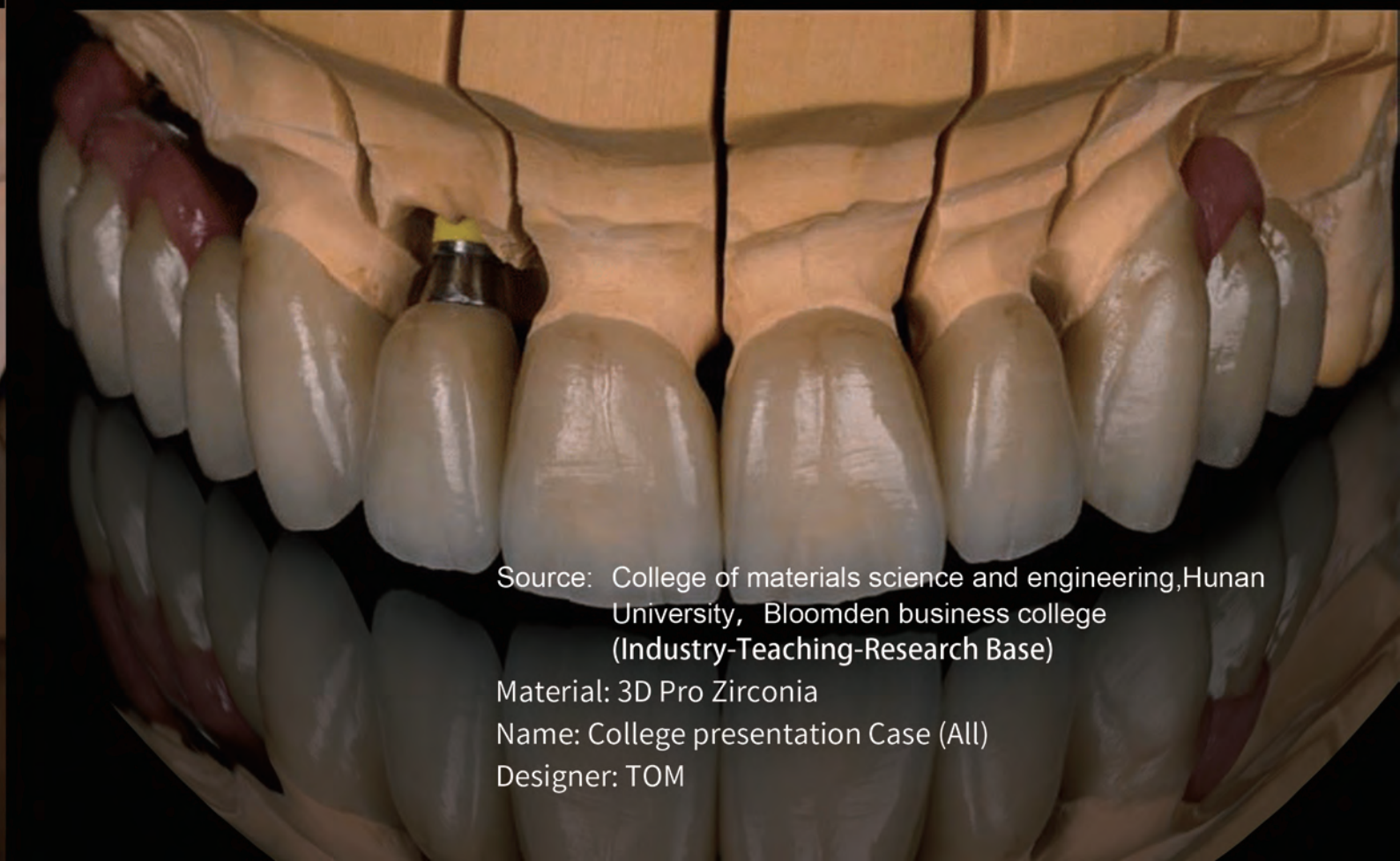
◀ Source: American customer case
Patient situation: Gender: Female
Material: 3D-Pro Zirconia
Stomatologist: Dr. Virgilio(USA)

Source: Russian customer case
Patient situation: Gender: Female
Material: 3D-Pro Zirconia
Milling machine: X5
Stomatologist: Dr. Nathan (USA)

More case, please
contact Bloomden



Source: College of materials science and engineering, Hunan University, Bloomden business college (Industry-Teaching-Research Base)
Material: 3D Pro Zirconia
Name: College presentation Case (Anterior)
Designer: TOM



Source: College of materials science and engineering, Hunan University, Bloomden business college (Industry-Teaching-Research Base)
Material: 3D Pro Zirconia
Name: College presentation Case (All)
Designer: TOM

Bloomden® 3D Pro ML Zirconia is for the Beauty in a Class of Aesthetics

Bloomden® 3D Pro ML has also begun to be used as a material for making dental implants. Bloomden® 3D Pro ML has been introduced into dental practice as an alternative to metal-ceramic dental restorations. Compared to the traditional porcelain to metal restorations, Bloomden® 3D Pro ML restorations have better aesthetic performance, as their excellent translucent properties, it is becoming the first choice today in the cases with high aesthetic requirements.

Dental labs can access:

- *3D Pro Multilayer Zirconia Block (98mm system, 95mm system, 92*75mm system) in many thickness(12mm, 14mm, 16mm, 18mm, 20mm, 22mm, 25mm)
- *3D Pro Multilayer Zirconia Block is available with Vita® 16 shades and Bleach 4 shades.
- *3D Pro Multilayer Zirconia Block is available with **Bloomden** Glaze and Stain Kit to create a natural aesthetic transition from dentin to incisal end.

Indications:

Restorations are available with monolithic full contour crowns, bridges, veneers or full arch.

Crowns (anterior and posterior)



3-4 unit bridges



Inlay



Veneer



Primary crowns



Onlay



Long-span and curved bridges



Full arch bridges



Bridges on implants



ALL IN ONE
49%-42% translucent
800-1200 Mpa

Bloomden®

CAD/CAM ZIRCONIA

Better trust better smile

3D Pro
Multilayer

www.bloomden.com

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Bloomden® 3D Pro ML: A Progress of Aesthetics

Zirconia as a dental material, zirconia, under various forms, is used worldwide in order to replace metal-ceramic restorations. It is obvious that the usage of full zirconia versus PFM restorations is more suitable due to biocompatibility, and the appearance as close as possible to the natural teeth. Monolithic zirconia restorations proved better mechanical properties.



Preparation: Bloomden® 3D Pro ML 3-unit bridge after sintering.



Final situation: Bloomden® 3D Pro 3-unit bridge after glazed with Bloomden® Bloomden Paste Glaze/Stain Kit glaze/stain kit

Consistent VITA® Classic Shade Match



Bloomden Paste Glaze/Stain Kit: the best glazing option for Bloomden 3D Pro ML

The kit includes four main color system of ABCD, 12 special effect colors, transparent glaze and diluent. No need to mix powder and liquid before use, paste-like glaze is with fine particles and uniform coloring. Each paste can be freely matched to achieve a satisfactory effect.



Bloomden Paste Stain/Glaze has two kinds of kits to meet the different needs of customers, namely the basic Kit and the aesthetic Kit.

1	Basic Kit The basic kit is combined with the most commonly used paste products, which can meet the basic needs of external stain of zirconia crowns.	
2	Aesthetic Kit The aesthetic kit includes a full range of paste products, which can obtain higher-level staining effect and imitate restorations that are closer to the natural teeth.	



You can find more details of Bloomden Paste Glaze/Stain Kit videos on www.bloomden.com.



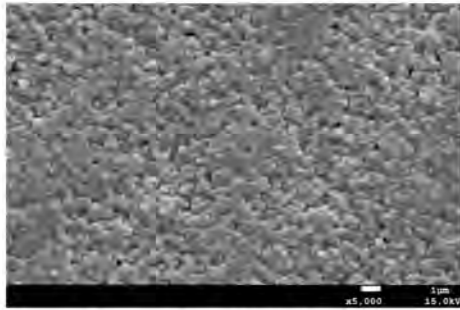
Features of 3D-Pro-ML zirconia

Excellent Aesthetics

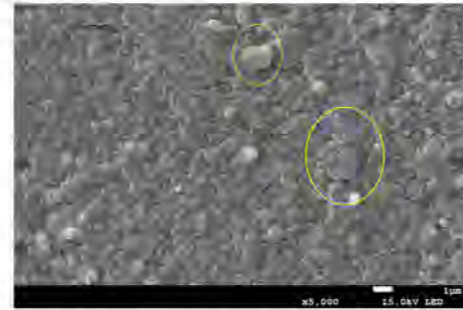
Bloomden® 3D Pro ML from incisal end 49% to cervical end 42% translucency, the incisal end effect is able to ensure the translucency of enamel, meanwhile the cervical end low translucency can realize the shading effect. After sintering, the restoration has a realistic appearance, natural color, and matches with VITA® color shade guide.



SEM images, 5K magnifications.



Bloomden® 3D Pro ML



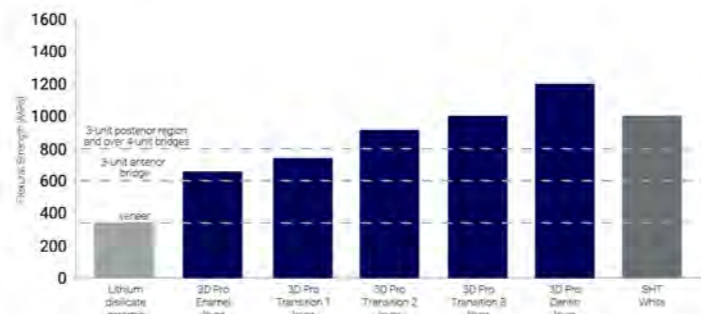
Branded competitive Zirconia
-highlighted impurity.

The Thermal properties

It is important to reproduce the translucency of the natural tooth, as it provides an enchanted natural appearance of the prosthetics. Translucency is the substance property that allows the passage of light and its dispersion, and then the objects will not be seen clearly through the material. This property could be defined as a state between transparency and complete opacity. Translucency can be regulated by controlling the absorption, reflection, and transmission of light through the material. The translucency is higher when the reluctance is low and the transmission is high.

Super High Strength

The bending strength of Bloomden 3D-Pro ML naturally transitions from 800 MPa to 1200 MPa, which can meet the strength requirements of restoration materials for a wide range of indications.

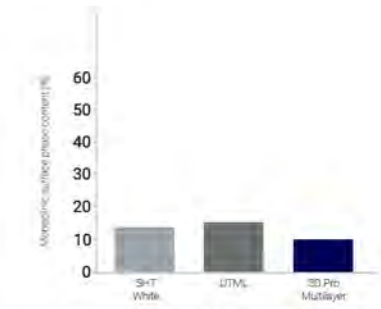


Flexural strength data of various kinds of dental zirconia blocks.

The Preparations for the long Life cycle of 3D Pro ML

Superior ageing resistance

The unique hydrolysis microstructure and chemical formula of Bloomden® 3D Pro ML can resist aging from cubic phase to monoclinic phase.



Analysis of Bloomden® dental zirconia after the hydrothermal treatment

Bloomden® 3D Pro ML zirconia fast sintering cycle



Bloomden® 3D Pro ML zirconia Standard sintering cycle



The fast sintering cycle produces the same crystalline structure inside the zirconia as the standard sintering cycle, which means dental lab technicians can fabricate reliable-quality dental restorations in couple days.

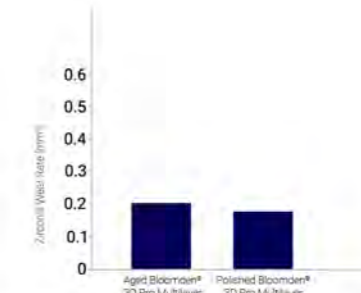
Chairside fast sintering

The Bloomden® fast sintering curve is the highlight of Bloomden® 3D Pro ML which can ensure strength, translucency, and aging resistance simultaneously. The high-productivity sintering cycle allows for "inside furnace" time in 63 minutes.

Low wear rate

Bloomden® 3D Pro ML zirconia has less wear on natural enamel and maintains a good initial shape of the natural enamel surface.

The study revealed that the aged zirconia and polished zirconia both have identical roughness and less wear of opposing enamel.



Comparison for the enamel wear between the aged and polished Bloomden® 3D Pro ML zirconia.



Perfect veneer effect

Bloomden® 3D Pro ML with multi-layer gradients and incisal translucency ensures a natural aesthetic for veneer restorations.

Bloomden® Chairside All Zirconia Solution



NEW

The start of 4.0 zirconia blocks



Adopt German professional processing equipment
Used several translucency of preshaded zirconia powder and pressed to form multilayer conditions which are highly close to the texture of nature teeth

Wide range of application
Veneer, crown & bridge and full arch, best choice for chairside aesthetic restoration.

Bloomden 3D-Pro ML gradient zirconia block

3h Getting results and wearing denture
Collocate with Bloomden Profire fast sintering system

Bloomden® 3D Pro ML ----- Reliable chairside assistant

Bloomden® 3D Pro ML zirconia is born to aesthetic restoration. Combined with the specific sintering curve of Bloomden Profire Speed sintering furnace, it only takes 63 minutes from entering the furnace to the completion of sintering (including heating and cooling time). This technology greatly shortens the chairside zirconia sintering time, realizes fast delivery, and brings a more comfortable clinical experience for patients and doctors.



Bloomzir® Chairside All Zirconia Solution

Chairside digital materials

Bloomden® 3D Pro-ML
Perfect choice for chairside fast restoration solution

Digital Model

FC-100 Intraoral scanner
Exquisite and handy with intelligent design

Design software

3Shape Exocad
Professional online restoration design team

Chairside All Zirconia Solution

Bring back your smile in one day

CNC Milling

X6 Milling Machine
The smallest 5 axes milling machine in the market

Sintering

ALL IN ONE
49%-42% translucent
800-1200 Mpa

CAD/CAM ZIRCONIA

Profire Speed Sintering Furnace

63 minutes fast sintering
Better Trust Better smile

3D Pro