

# Bloomden Lumix 3D High Translucent Multilayer Zirconia

## The Performance for Aesthetics and Strength

Lifelike Natural Gradient Technology



• BETTER TRUST BETTER SMILE

**Bloomden Bioceramics**  
CAD/CAM Solution Provider

**Headquarters**  
F1.7 Bldg 5 | CEC Software Park Yuelu Dist, Changsha, HN | China

**Manufacturing Base**  
Bldg5 | Hi-tech Development Zone | Yuelu Dist, Changsha, HN | China





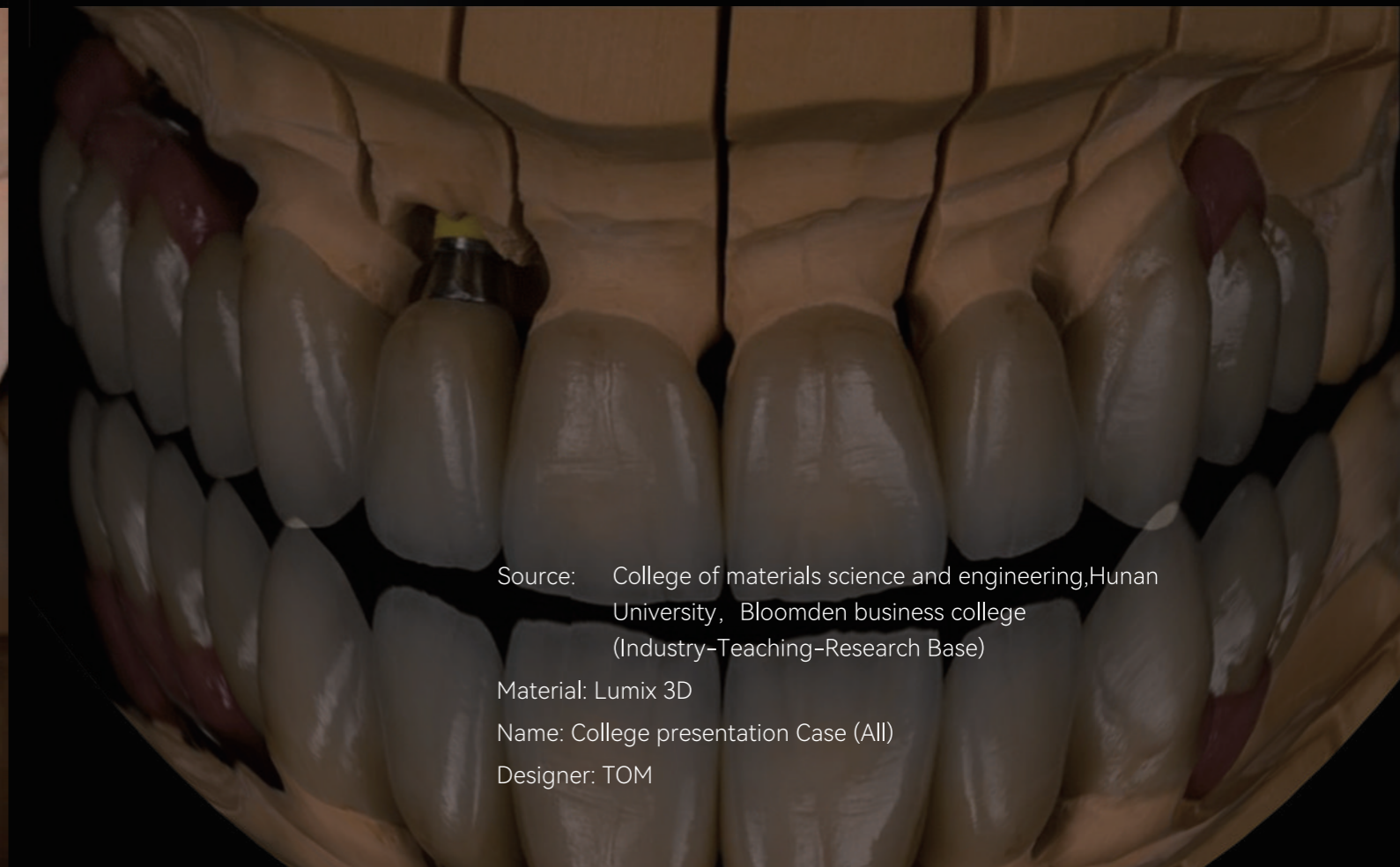
◀ Source: American customer case  
Patient situation: Gender: Female  
Material: Lumix 3D  
Stomatologist: Dr. Virgilio (USA)

Source: Russian customer case  
Patient situation: Gender: Female  
Material: Lumix 3D  
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: Lumix 3D  
Name: College presentation Case (Anterior)  
Designer: TOM



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

# Bloomden Lumix 3D Zirconia is for the Beauty in a Class of Aesthetics

Bloomden Lumix 3D has also begun to be used as a material for making dental implants. Bloomden Lumix 3D has been introduced into dental practice as an alternative to metal-ceramic dental restorations. Compared to the traditional porcelain to metal restorations, Bloomden Lumix 3D 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.



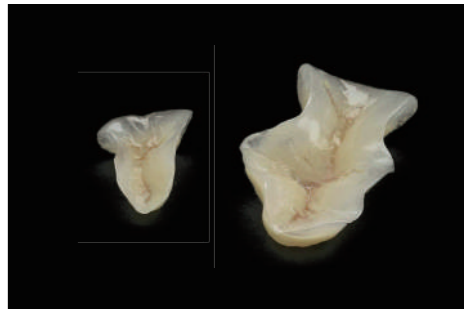
Crowns (anterior and posterior)



3-4 unit bridges



Inlay



Veneer



Primary crowns



Onlay



Long-span and curved bridges



Full arch bridges



Bridges on implants



# Bloomden Lumix 3D: 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 Lumix 3D 3-unit bridge after sintering.



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

## Consistent VITA® Classic Shade Match



# Bloomden Paste Glaze/Stain Kit: the best glazing option for Lumix 3D

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.



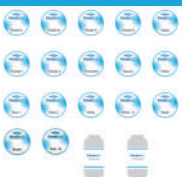
Bloomden Paste Stain/Glaze has two kinds of kits to meet the different needs of customers, namely the basic Kit and the aesthetic Kit.



**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.



**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](http://www.bloomden.com).



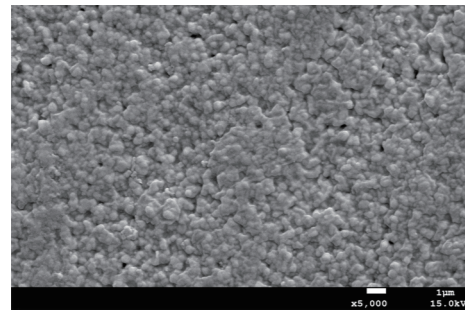
# Features of Lumix 3D zirconia

## Excellent Aesthetics

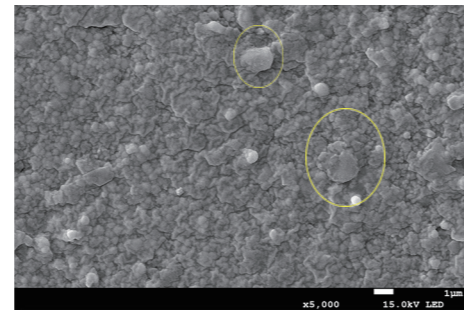
Bloomden Lumix 3D from incisal end 49% to cervical end 42% translucency, the incisal end effect is able to ensure the translucency of enamel, meanwhile the cervical end low translucency can realize the shading effect. After sintering, the restoration has a realistic appearance, natural color, and matches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



## SEM images, 5K magnifications.



Bloomden Lumix 3D



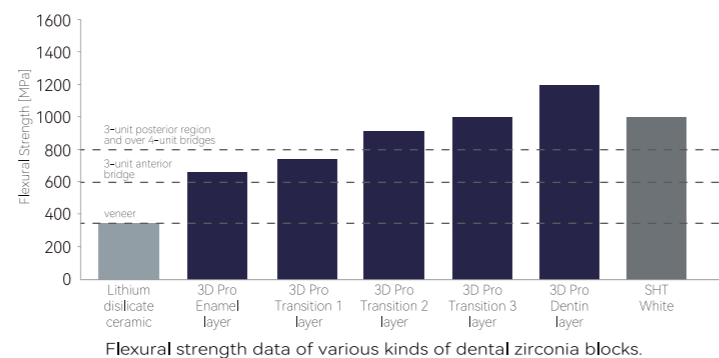
Branded competitive Zirconia  
--highlighted impurity.

## 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

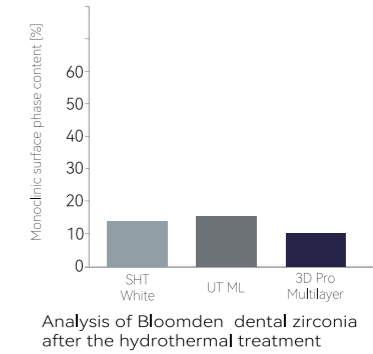
The bending strength of Bloomden Lumix 3D naturally transitions from 800 MPa to 1200 MPa, which can meet the strength requirements of restoration materials for a wide range of indications.



# The Preparations for the long Life cycle of Lumix 3D

## Superior ageing resistance

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



Bloomden Lumix 3D zirconia fast sintering cycle



Bloomden Lumix 3D 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.

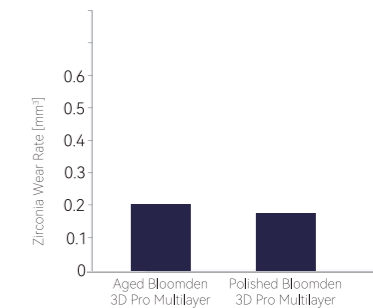
## Chairside fast sintering

The Bloomden fast sintering curve is the highlight of Bloomden Lumix 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 Lumix 3D 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 Lumix 3D zirconia.



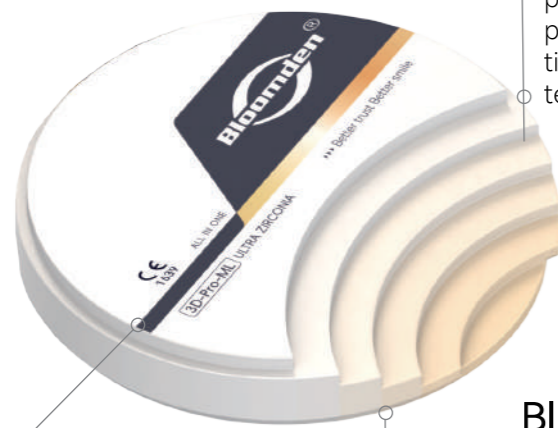
## Perfect veneer effect

Bloomden Lumix 3D 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

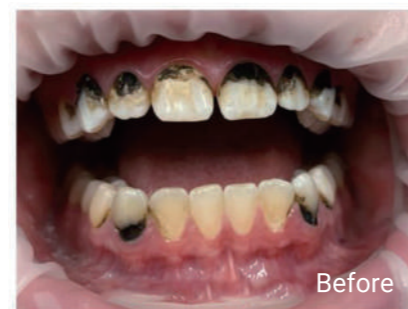
Bloomden Lumix 3D gradient zirconia block

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

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

## Bloomden Lumix 3D ----- Reliable chairside assistant

Bloomden Lumix 3D 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.



# Bloomden Chairside All Zirconia Solution

