

Dental Glass Ceramic Blocks

Crystal-clear and robust



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GLASS-CERAMIC



Implant



Amber



CAD



CAD



Sinter-free



Pressing



CAD

Dental CAD/CAM glass-ceramic blocks, available in 20 shades, 4 transparencies, and 2 size specifications. Over3 million blocks sold annually worldwide, covering 20+ regional markets.



Features

- Available in all 20 shades, 4 transparencies and two sizes (C14 and B40).
- Melted and refined in full-platinum furnace that assures glass homogeneity; formed in a single-stepautomated process, creating wave-like natural texture on the surface of our blocks.
- Automated Optical Inspection was used to exclude hidden cracks, impurities, or bubbles.
- Certified in EU-MDR, FDA, NMPA and ANVISA.

Technical Specifications

Density	2.49 g/cm³
Thermal Expansion(25-500℃)	11.4×10 ⁻⁶ /K
Flexural Strength	420 MPa
Linear Shrinkage Rate	0.25%
Vickers Hardness	615 Hv
Elastic Modulus	75 GPa
Fracture Toughness	2.0 MPa·m ^{1/2} (-1/2)

Clinical Cases



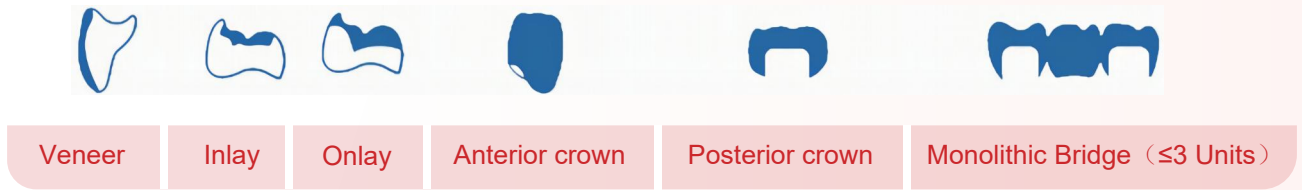
Case: Dr.Fabin Yin,Sichuan Siweier Dental

Case: Dr.Weihua Wu,Shenzhen Maiya Dental

Avaiable Shades

Colors	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
HT (C14)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LT (C14)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MT (C14)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HT (B40)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LT (B40)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MT (B40)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Recommended Indication



Amber

Dental CAD/CAM glass-ceramic blocks with an amber-like appearance, specially designed for veneer application with enhanced fluorescent effect and ultra-high transparency, available in bleach shade.



Features

- Featuring purple, light amber, and semi-transparent ivory color appearance, corresponding to 3 different bleach shades.
- Melted and refined in full-platinum furnace that assures glass homogeneity; formed in a single-step automated process, creating wave-like natural texture on the surface of our blocks.
- Automated Optical Inspection was used to exclude hidden cracks, impurities, or bubbles.



Technical Specifications

Density	2.49 g/cm ³
Thermal Expansion(25-500 ℃)	11.4×10 ⁻⁶ /K
Flexural Strength	360 MPa
Linear Shrinkage Rate	0.25%
Vickers Hardness	615 Hv
Elastic Modulus	75 GPa
Fracture Toughness	1.8 MPa·m [^] (-1/2)

Available Shades

			
Colors	BL1	BL2	BL3
HT	•	•	•

Recommended Indication

			
Veneer	Inlay	Onlay	Crown

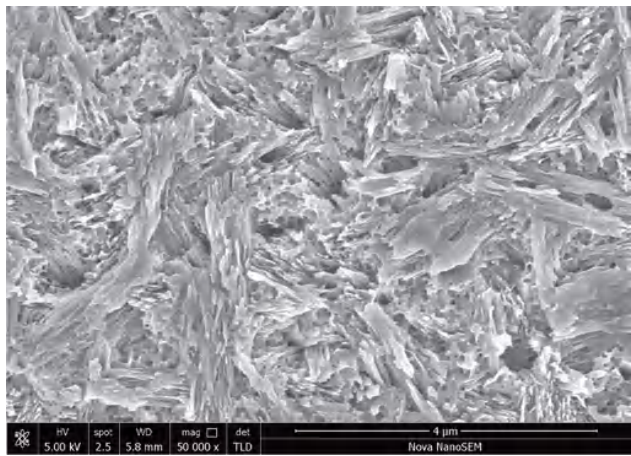
Sinter-free

Dental CAD/CAM glass-ceramic blocks without the need of further crystallization, for immediate chairside repairs, enabling 30 minute production of a single restoration including design and fabrication.

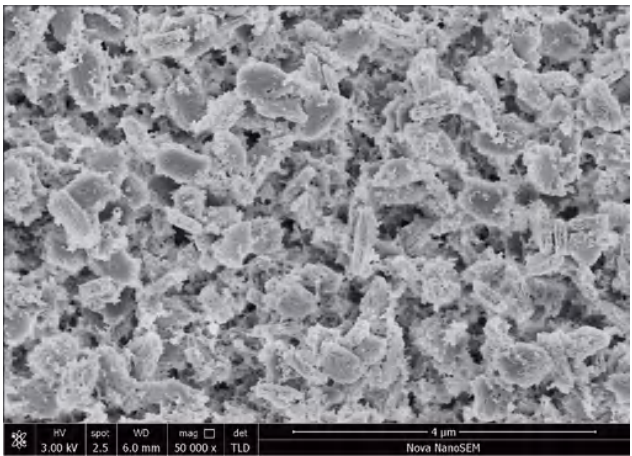


Features

- Available in 12 common shades and 2 transparencies.
- Wear resistance ~50x higher than that of traditional resin-based ceramic composite.
- 30 minutes from design to delivery for a single restoration.
- Design, mill, polish and apply, no need for crystallization.



Without Microcrystal Control Technology

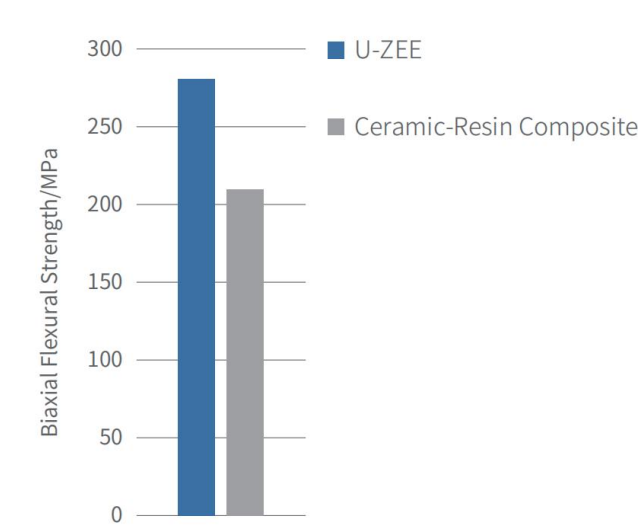


With Microcrystal Control Technology

U-ZEE utilizes Microcrystal Control Technology, featuring nano-size crystals with a rounded shape, achieving an optimal balance between flexural strength and milling capability.

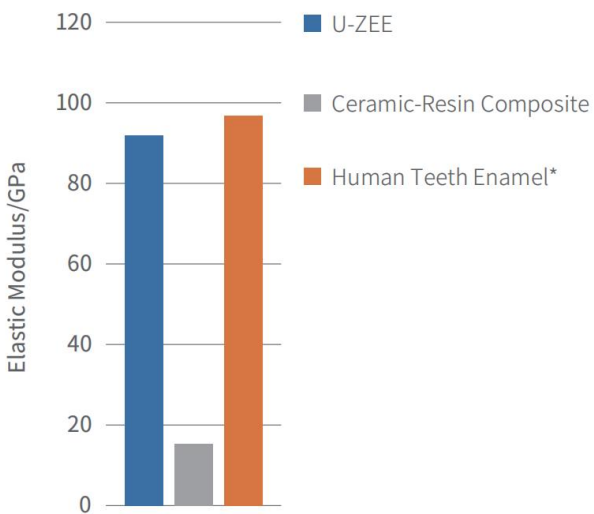
Higher Flexural Strength

Biaxial Flexural Strength: 280MPa, 33% higher than that of Ceramic-Resin Composite



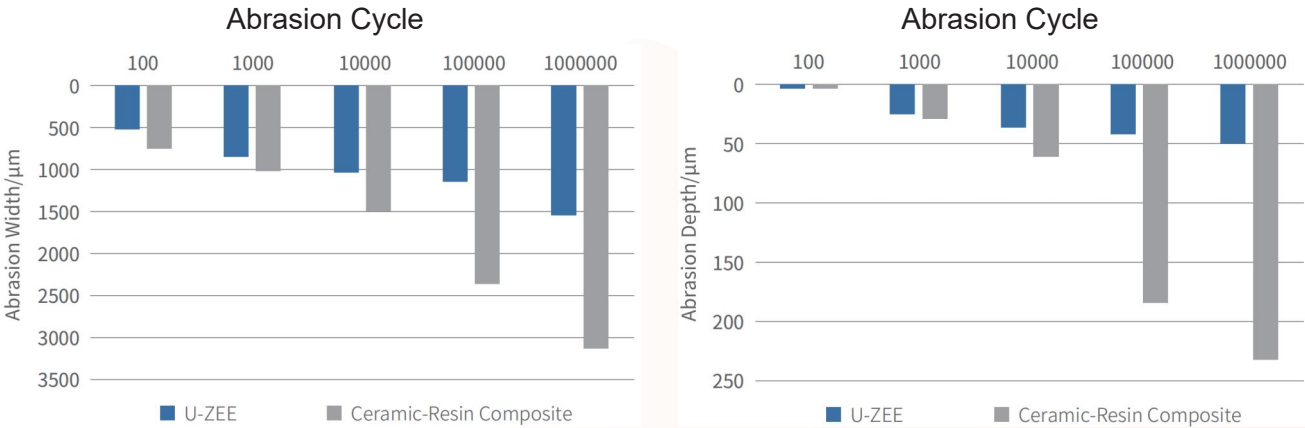
Higher Elastic Modulus

Elastic Modulus matching human teeth enamel, avoiding detachment due to chewing strain



*Galo R. et al. Eur J Dent. 2015, 9(4): 587-593.

Outstanding Wear Resistance



Available Shades

Colors	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	C1	D2
HT	•	•	•	•	•	•	•	•	•	•	•	•
LT	•	•	•	•	•	•	•	•	•	•	•	•

Clinical Cases



Case: Beijing Leleja Medical Technology

Case: Nanning Hongteng Medical Technology

Technical Specifications

Flexural Strength Before Crystallization	280±60 MPa
Flexural Strength After Crystallization	380±60 MPa
Density After Crystallization	2.46-2.52 g/cm³
Line Shrinkage Rate	0.0010-0.0026 (≈0.2%)
Vickers Hardness	600 Hv
Elastic Modulus	50±10 GPa
Fracture Toughness	2.5-3.5 MPa·m ^(-1/2)
Chemical Solubility After Crystallization	<100µg/cm²
Cytotoxicity After Crystallization	0 grade

Recommended Indication



Implant

Pre-formed with implant holes with anti-twist slots, to be used in conjunction with Ti-base to achieve clinical applications of immediate implantation and aesthetic implant integrated crowns.



Clinical Cases



Chairside Implant

Abutment

Available Shades

Colors	BL1	BL2	A1	A2	A3	B1
HT	•	•	•	•	•	•
LT	•	•	•	•	•	•

Glass Ceramic Blocks For All-ceramic Dentures

Engineered for precision fit and natural beauty

High Transmittance

Nature Color

Highly Biomimetic

Strong Compatibility



Transparency

- Available in all 20 shades and 3 transparencies.
- Excellent flow properties ensuring the casting integrity of complex restorations.
- Wide adaptability for inlays, onlays, veneers and crowns.
- Anti-oxidation layer technology, effectively reducing oxide layer thickness, making it easier for grind and polish.
- Certified in EU-MDR, FDA, NMPA and ANVISA.



YP·DENTAL

460MPa

ISO 6872:2008
Standards for Dental Ceramics

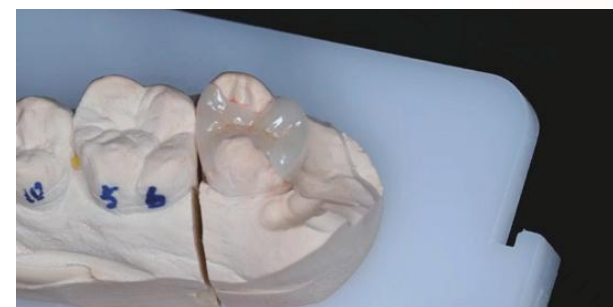
>300MPa

Biaxial Bending Strength(Mpa)

Available Shades

	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Colors																				
HT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MT	•																			

Clinical Cases



Recommended Indication



Veneer



Inlay



Onlay



Crown