

IPS e.max[®] CAD Crown by NobelProcera[™]

FACT SHEET VERSION 1

Overview

- High-strength lithium disilicate glass ceramic (LS₂)
- For full-contour cement-retained crowns
- Optimal esthetics with a wide range of shades (16 A-D, 4 Bleach BL Shades in LT translucency)
- Efficient characterization and crystallization process
- Layering with IPS e.max Ceram for high-end solutions
- Both conventional and adhesive cementation possible
- Individual computer-aided design in NobelProcera Software for optimal esthetics and functionality



Material characteristics

Composition:	SiO ₂ , Li ₂ O, K ₂ O, MgO, Al ₂ O ₃ , P ₂ O ₅ and other oxides.
Flexural strength (biaxial)*:	360 MPa
Fracture toughness:	2.25 MPa m ^{0.5}
Modulus of elasticity:	95 GPa
Vickers hardness :	5800 MPa
Chemical solubility*:	40 µg/cm ²
Crystallization temperature:	840–850°C/1544–1562°F
CTE (100–400°C):	10.2 [10 ⁻⁶ /K]
CTE (100–500°C):	10.5 [10 ⁻⁶ /K]

*According to ISO 6872

Characterization/Veneering

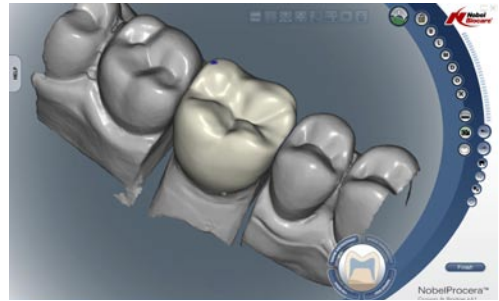
- IPS e.max CAD Crystall./Glaze, Shades and Stains for the staining technique on the *non-crystallized* restoration. All necessary materials to finish the non-crystallized restoration are combined in the IPS e.max CAD Crystallization Kit.
- IPS e.max Ceram (nano-fluor-apatite glass ceramic) for the staining, cut-back and layering technique on the *crystallized* restoration



Additional supporting guidelines are available from Ivoclar Vivadent on www.ivoclarvivadent.com

Additional information

- IPS e.max CAD is milled and processed in a crystalline, intermediate state, when it shows its typical “blue” color.
- Non-crystallized restoration is finished with suitable grinding instruments. Grind the occlusal surface to smooth out the surface structure created by the CAD/CAM procedure. Clean the restoration with ultrasound or blast with steam jet – Do not blast the restorations with Al₂O₃ or glass polishing beads.
- During crystallization firing in a regular ceramic furnace (i.e. Programat P500) the restoration reaches its final physical properties (strength of 360 MPa) and the corresponding optical properties (translucency, tooth color)



Indications and design features

- Full-contour crowns in the anterior and posterior region
- Implant superstructures for single-tooth restorations (anterior and posterior region)

Contraindications and design limitations

- Fully veneered molar crowns
- Very deep subgingival preparations
- Patients with substantially reduced residual dentition
- Bruxism
- Any other use not listed in the indications

NobelProcera™ – certified quality

IPS e.max® CAD Crowns by NobelProcera are guaranteed for five years after shipping date; the NobelProcera Product Warranty covers the NobelProcera products and does not include any additional costs. NobelProcera also provides certificates of material authenticity.



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