

IPS e.max[®]

TECH SHEET

Strength. Durability. Esthetics.

IPS e.max, a true glass ceramic restoration made from lithium disilicate, features optimized translucency, durability and strength for full anatomical restorations. Available as both a pressed ceramic and as a CAD/CAM milled restoration, IPS e.max is a versatile system that offers a complete range of restorations to meet all of your patients' demands.

IPS e.max is ideal for single anterior and posterior crowns, 3-unit anterior bridgework (bicuspid forward), veneers and inlays/onlays as the material truly mimics the light refraction and natural translucency necessary for outstanding esthetic appearance. With a flexural strength of 500 MPa's and the benefits of both monolithic and layered options, IPS e.max is the material of choice for minimally invasive esthetic dentistry.

INDICATIONS

- Available in monolithic and layered alternatives
- Single unit anterior and posterior restorations
- 3-unit bridgework (bicuspid forward)
- Veneers
- Minimally invasive inlays/onlays and partial crowns
- Implant restorations

CONTRAINDICATIONS

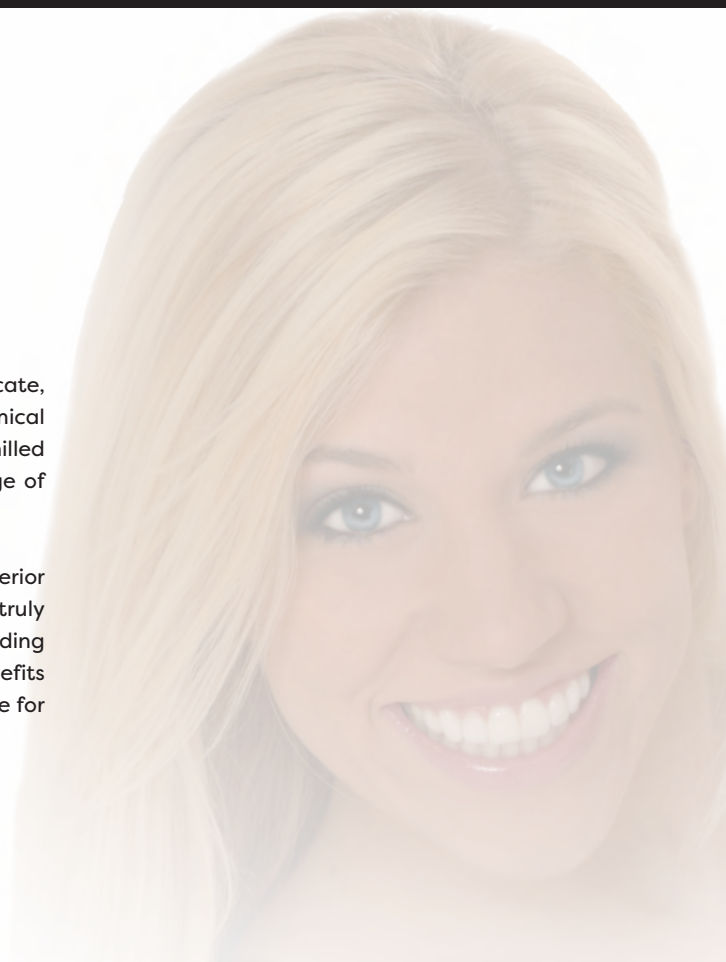
- Severe bruxism and/or worn dentition
- Limited occlusal space

BONDING OR CEMENTATION

The high strength of IPS e.max offers dentists the choice of adhesively bonding or conventionally cementing.

Bonding: Indicated for maximum retention and comprehensive strength of crowns, bridges, veneers, and inlays/onlays when tooth preparations are primarily supra-gingival and isolation is possible. Use self-cure or dual-cure adhesive cements for most restorations. For veneers, use light-cure or dual-cure cements with shading options.

Cementation: Indicated for full coverage crowns only. Use self-adhesive resin cements or resin-modified glass ionomer in situations where a conventional cement would normally be used (retentive prep design or tight fitting crown).



IPS e.max Monolithic



IPS e.max Layered

Material Survival with Cyclic Fatigue Testing

Veneered Zirconia Systems
• 90% Failure Rate at 350 N and 100,000 cycles

IPS e.max Monolithic Lithium Disilicate
• 0% Failure at 1,000 N and 1,000,000 cycles
• No chips, cracks or fractures!

*Mouth Motion Fatigue and Durability Study: Petra C Guess, Ricardo Zavanelli, Nelson Silva and Van P Thompson, NYU, June 2009

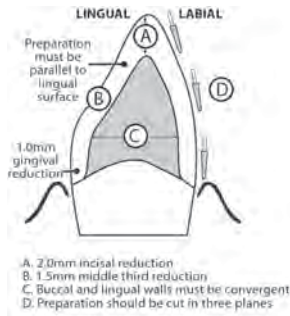
350 N*

zirconia
(veneered)

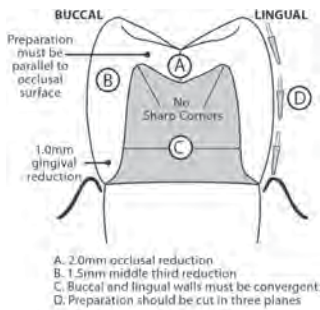
1000 N*

IPS e.max
lithium
disilicate
(monolithic)

ANTERIOR



POSTERIOR



PREPARATION GUIDELINES

- A 1.0 mm rounded chamfer or shoulder margin with rounded line angles
- Facial reduction 1.5-2.0 mm
- 1.0-1.5 mm lingual contact clearance
- 1.5-2.0 mm occlusal clearance

ADJUSTING AND POLISHING

If adjustment is required, seat (cement) the crown and then make adjustments. Use a fine grit diamond at slow speed with copious amounts of water. Polish with a porcelain polishing wheel and diamond polishing paste.

IPS E.MAX ULTRA-THIN VENEERS

Pressed IPS e.max with micro-layering is an ideal choice for ultra-thin, high-strength porcelain veneers. IPS e.max can be pressed to as thin as 0.3 mm for veneers, creating one of the strongest minimally invasive restorations available today.



BEFORE



AFTER

IPS E.MAX NO-PREP OR PARTIAL PREP VENEERS

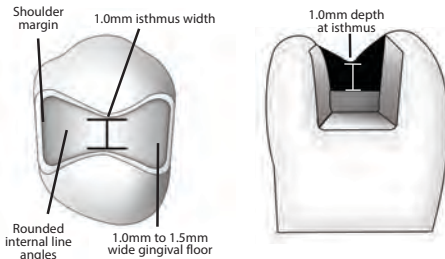
If sufficient space is present, a no-prep or partial prep veneer can be provided that allows the clinician and the patient to benefit from non-invasive contouring or enameloplasty, usually without an injection or temporization.

The DAL Partial Prep Veneer is an evaluation-based system anchored in functional and esthetic design. Upon receipt of your case, one of our experienced technicians will mount your casts, determine any necessary prep or slight recontouring, and return the following communication tools to your office:

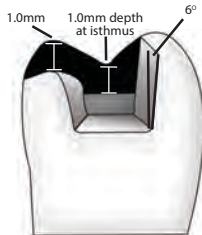
- Study model
- Complete diagnostic wax-up
- Matrix from the diagnostic wax-up
- Prep model (minor contours and any necessary prep areas are illustrated)
- Consultation sheet - tooth by tooth
- Fee estimate



INLAY



ONLAY



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