

What's different "E-Max" and "Zirconia"

	<b>E-Max Monolithic Crown</b>	<b>Zirconia Crown</b>
<b>Manufacturer</b>	-Ivoclar Vivadent	-3M Lava -Noble Biocare - Procera -Dentsply-Cercon -Diadem- DiaZir -Ivoclar Vivadent : ZirCAD
<b>Materials</b>	-Lithium Disilicate Glass Ceramic	-Yttrium-Stabilized Zirconium (YZ)
<b>Process</b>	(1) Pressable techniques (High strength glass ceramic ingot) or (2) CAD/CAM techniques (Lithium silicate glass-ceramic block)	-CAD/CAM techniques (Pre-sintered, Yttrium-stabilized zirconium oxide blocks)
<b>Material Flexural Strength (according to ISO 6872)</b>	360~400 Mpa (Lower than "Zirconia", But still strong material)	900~1,100 Mpa
<b>Advantage</b>	-Superior Esthetics, High Translucency and brightness -Good for Thin veneers case (Min thickness:0.3mm)	Ideal for high strength Crown & Implant sub-structures with good esthetics (up to 8~9unit Bridge)
<b>Weak Point</b>	-If patient stump shade (dentin core shade) is too dark, It will be transmission to the crown. -Only possible to maximum 3~4unit Bridge.	-Need facial reduction prep' of 0.8mm to 1.5mm must be achieved.
<b>Guide to Cement</b>	- <u>For general E-max crown</u> » <u>Use adhesively Bond or Conventional cement</u> (ex) -Multilink Automix (Ivoclar) -Variolink-II with Excite (Ivoclar) -Rely-X Unicem (3M ESPE) -Panavia F2.0 (Kuraray America) -Maxcem Elite (Kerr Corp) -Callbra with Prime and Bond NT (Dentsply) - <u>For anterior E-Max press thin veneers</u> » <u>Use adhesively Bond</u> (ex) -Variolink Veneer (Ivoclar) -Rely-X Veneer (3M ESPE)	» <u>Use Conventionally cement</u> (No etching use a self-adhesive universal resin cement or resin-modified glass ionomer cement or resin cement with ceramic primer and bonding agent)  (ex) -Multilink Automix (Ivoclar) -Speed Cem (Ivoclar) -Rely-X Unicem (3M ESPE) -GC Fuji CEM Automix (GC America) -Maxcem Elite (Kerr Corp) -Breeze (Pentron) -Clearfil Esthetic cement (Kuraray America)

--	--	--

By Peace Country dental studio inc./Kevin choi(RDT)