

| Elastic Modulus<br>E (GPa) | Thermal Exp.<br>CTE ( $\times 10^{-6}/^{\circ}\text{C}$ ) | Tensile Strength<br>UTS (MPa) |                                                                                     | Elastic Modulus<br>E (GPa)                | Thermal Exp.<br>CTE ( $\times 10^{-6}/^{\circ}\text{C}$ ) | Tensile Strength<br>UTS (MPa) |
|----------------------------|-----------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-------------------------------|
| ~80                        | Enamel<br>~17                                             | ~10                           |  | Feldspathic Porcelain                     |                                                           |                               |
|                            |                                                           |                               |                                                                                     | ~60-70                                    | ~13-16                                                    | ~25-40                        |
|                            |                                                           |                               |                                                                                     | Laboratory Composite Resins (~87% filled) |                                                           |                               |
|                            |                                                           |                               |                                                                                     | ~17-21                                    | ~13-15                                                    | ~56-66                        |
| ~14                        | Dentin<br>~11                                             | ~105                          |  | Composite Resin                           |                                                           |                               |
|                            |                                                           |                               |                                                                                     | ~10-20                                    | ~20-40                                                    | ~40-60                        |
|                            |                                                           |                               |                                                                                     |                                           |                                                           |                               |