



Technical Data of Zirconia (ZrO₂)

Bulk Density	6.0x10³ kg/m³
Vickers Hardness Load 500g	12.7GPa(1270HVA 500)
Flexural/Strength	1470MPa
Young's Modulus of Elasticity	220GPa
Poisson's Ratio	0.31
Coefficient of Linear Thermal Expansion 40~400⁰C	10.8x10⁻⁶/⁰C
40~800⁰C	11.3x10⁻⁶/⁰C
Thermal Conductivity	3w/(m.k)
ZrO₂	94.5%
Y₂O₃	5.2%
Al₂O₃	0.2%