

Zirconia (ZrO₂)

Performance parameters of zirconia

Material Properties	Unit	Zirconia
Density	g/cm ³	6.02
Vickers hardness	GPa	13
Bending strength	MPa	900
Compressive strength	MPa	2400
Elastic modulus	GPa	210
Toughness	MPa·m ^{1/2}	7
Poisson's ratio	—	0.31
Young's Modulus	GPa	200

Thermal Properties	Unit	Zirconia
Thermal conductivity	W/mK	3
melting point	°C	2700
Maximum operating temperature	°C	1000
linear expansion coefficient	10 ⁻⁶ /K	10

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Electrical Properties	Unit	Zirconia
Dielectric constant	1 MHz	20-30
Breakdown voltage	kV/mm	10-30
Resistivity	Ω·cm	10 ^{^5}

Note: This value is for reference only and may vary slightly depending on the batch conditions.

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