

Material characteristics

Material		Zirconia ceramics
Туре		Z-507
Short description		Partially stabilised Zirconia PSZ- MgO 3,5 (yellow)
Table of Characteristics		
Density	g/cm ³	5,7
Porosity	%	0
Average Grain Size	μm	50
Mechanical Properties		
Bending Strength (4 pt.)	MPa	500
Modulus of Elasticity	GPa	200
Fracture Toughness	MPa m1/2	7,0
Thermal Properties		
Maximum Working Temperature	°C	to 1000
Coefficient of Thermal Expansion (20 - 1000° C)	10^{-6} K^{-1}	10,5
Thermal Conductivity at 100 °C	W/mK	2
Electrical Properties		
Specific Resistance at 20° C Dielectric Strength	Ωcm kV/mm	10 ¹⁰

These values are typical ceramic material properties and may vary according to product configuration and manufacturing process.