

Zirconia Ceramic Material Properties - SU0451

Properties	Unit	Value
Color	-	White
Density	g/cm ³	6.0
Zirconia Content	%	94.4%
Gas Permeability	-	0
Water Absorption	%	0
Crystal Size	μm	0.5
Rockwell Hardness (45N)	R45N	78
Vickers Hardness (Load 500g)	GPa (Kg/mm ²)	11.5 (1175)
Flexural Strength (20°C)	MPa	800
Compressive Strength (20°C)	MPa	2000
Modulus of Elasticity (20°C)	GPa	>200
Fracture Toughness (20°C)	MPa·m ^{1/2}	9.0
Thermal Conductivity (20°C~400°C)	W/(m·k)	2.5
Thermal Expansion Coefficient	10 ⁻⁶ /°C	9.6
Thermal Shock Resistance	ΔT°C	250

Remark: The value is just for review. Different working conditions may cause some difference..

Xiamen Innovacera Advanced Materials Co.,Ltd

 Block A, 6/F, No.588 Jiahe Road, Torch High-tech Industrial District, Xiamen, China 361006.

 0086 592 558 9730

 0086 592 558 9733

 sales@innovacera.com

 www.innovacera.com