

## Wieland Zeno™ Zr Disc Zirconium Oxide

Category : Ceramic , Oxide , Zirconium Oxide

**Material Notes:**

Zirconium oxide blanks supplied partly sintered. Available in five different thicknesses to reduce material costs. Applications: modern dental restorationsDental

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Wieland-Zeno-Zr-Disc-Zirconium-Oxide.php](http://www.lookpolymers.com/polymer_Wieland-Zeno-Zr-Disc-Zirconium-Oxide.php)

Physical Properties	Metric	English	Comments
Density	>= 6.06 g/cc	>= 0.219 lb/in <sup>3</sup>	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	<= 1290	<= 1290	
Modulus of Elasticity	210 GPa	30500 ksi	
Flexural Strength	<= 1300 MPa	<= 189000 psi	4-point
Compressive Strength	2000 MPa	290000 psi	
Fracture Toughness	7.00 MPa-m <sup>1/2</sup>	6.37 ksi-in <sup>1/2</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 μm/m-°C	5.56 μin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	<= 1.0 %	<= 1.0 %	
Y2O3	4.0 %	4.0 %	
ZrO2	95 %	95 %	

Descriptive Properties	Value	Comments
Color	white / x-ray opaque	

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