

## Sapco Partially Stabilized TZP Zirconia (YSZ)

Category : Ceramic , Oxide , Zirconium Oxide

**Material Notes:**

Information provided by Sapco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sapco-Partially-Stabilized-TZP-Zirconia-YSZ.php](http://www.lookpolymers.com/polymer_Sapco-Partially-Stabilized-TZP-Zirconia-YSZ.php)

Physical Properties	Metric	English	Comments
Density	6.05 g/cc	0.219 lb/in <sup>3</sup>	
Open Porosity	0.00 %	0.00 %	
Weibull Modulus	22	22	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.0	8.0	
Modulus of Elasticity	200 GPa	29000 ksi	
Flexural Strength	1000 MPa	145000 psi	
Compressive Strength	2100 MPa	305000 psi	
Poissons Ratio	0.31	0.31	
Shear Modulus	76.0 GPa	11000 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	10.3 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	5.72 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.400 J/g- $\text{Å}^\circ\text{C}$	0.0956 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1100 $\text{Å}^\circ\text{C}$	2010 $\text{Å}^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	

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