

MarkeTech Zirconium Oxide Ceramic Zirconia, Tetragonal, Y2O3 Stabilized

Category : Ceramic , Oxide , Zirconium Oxide

Material Notes:

Data provided by the supplier, MarkeTech International. Zirconium oxide is widely used and has superior high temperature properties. When combined with yttria the strength and fracture toughness is significantly improved. This makes some grades of zirconia superior to most materials for abrasion and wear resistance. Parts can be machined before firing in the green state and after firing to meet exacting specifications. Zirconia is electrically conductive above 900°C. Zirconia can be tape cast into very thin sheets for fuel cells and engineered ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Zirconium-Oxide-Ceramic-Zirconia-Tetragonal-Y2O3-Stabilized.php

Physical Properties	Metric	English	Comments
Density	6.10 g/cc	0.220 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	1300	1300	kg/mm ²
Modulus of Elasticity	205 GPa	29700 ksi	
Flexural Strength	1300 MPa	189000 psi	
Compressive Strength	3900 MPa	566000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	10.9 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.06 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	2.30 W/m-K	16.0 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	

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