

## MarkeTech Zirconium Oxide Ceramic, Zirconia MgO 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-MgO-Stabilized.php](http://www.lookpolymers.com/polymer_MarkeTech-Zirconium-Oxide-Ceramic-Zirconia-MgO-Stabilized.php)

Physical Properties	Metric	English	Comments
Density	5.75 g/cc	0.208 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	1200	1200	kg/mm <sup>2</sup>
Modulus of Elasticity	200 GPa	29000 ksi	
Flexural Strength	620 MPa	89900 psi	
Compressive Strength	1750 MPa	254000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	10.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.61 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	2.20 W/m-K	15.3 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	500 $\text{Å}^\circ\text{C}$	932 $\text{Å}^\circ\text{F}$	

### Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China