

Aremco AREMCOLOX™ 502-1900-YTZP Dense Yttria Stabilized Zirconium Oxide

Category : Ceramic , Oxide , Zirconium Oxide

Material Notes:

This grade offers a high flexural strength for a zirconia. The fine grain size lends itself to be used in cutting tools where a very sharp edge can be achieved and maintained due to its high wear resistance. Also provides excellent mechanical strength, corrosion and thermal shock resistance, impact toughness, and very low thermal conductivity. Used for structural components, wear parts, fiber optic ferrules and sleeves, oxygen sensors, and solid oxide fuel cells (SOFC).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-1900-YTZP-Dense-Yttria-Stabilized-Zirconium-Oxide.php

Physical Properties	Metric	English	Comments
Specific Gravity	5.85 g/cc	5.85 g/cc	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.0	8.0	
Flexural Strength	207 MPa	30000 psi	
Compressive Strength	2500 MPa	363000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	10.4 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	5.80 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Thermal Conductivity	2.20 W/m-K	15.3 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	1800 °C	3270 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	29	29	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	8.98 kV/mm	228 kV/in	
Dielectric Loss Index	0.0010	0.0010	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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