

CoorsTek DuraSense™ Ceramic Alumina Toughened Zirconia

Category : Ceramic , Oxide , Zirconium Oxide

Material Notes:

Oxygen ionic conductor for extreme-stress and extreme-thermal-shock environments

Order this product through the following link:

http://www.lookpolymers.com/polymer_CoorsTek-DuraSense-Ceramic-Alumina-Toughened-Zirconia.php

Physical Properties	Metric	English	Comments
Density	4.90 g/cc	0.177 lb/in ³	ASTM-C 20
Water Absorption	0.00 %	0.00 %	ASTM-373

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 45 N	85	85	
Flexural Strength	350 MPa	50800 psi	MOR; ASTM-F417
Fracture Toughness	3.50 MPa-m ^{1/2}	3.19 ksi-in ^{1/2}	Notched Beam

Thermal Properties	Metric	English	Comments
CTE, linear	8.30 μm/m-°C	4.61 μin/in-°F	ASTM-C372
	@Temperature 25.0 - 1000 °C	@Temperature 77.0 - 1830 °F	
Thermal Conductivity	23.0 W/m-K	160 BTU-in/hr-ft ² -°F	ASTM-C408
Maximum Service Temperature, Air	1500 °C	2730 °F	NO-LOAD COND.

Descriptive Properties	Value	Comments
Color	White	
Permeability	Gas tight	
Thermal Shock Resistance (°C)	500	ΔTc

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