

CoorsTek Porcelain

Category : Ceramic

Material Notes:

Information provided by CoorsTek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CoorsTek-Porcelain.php

Physical Properties	Metric	English	Comments
Density	2.40 g/cc	0.0867 lb/in ³	ASTM C20
Water Absorption	0.00 %	0.00 %	ASTM C373

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	5.9	5.9	1000 g load
Hardness, Rockwell 45 N	60	60	GPa
Modulus of Elasticity	104 GPa	15100 ksi	ASTM C848
Flexural Strength	130 MPa	18900 psi	ASTM F417
Compressive Strength	590 MPa	85600 psi	ASTM C773
Fracture Toughness	2.00 MPa-m ^{1/2}	1.82 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	9.50 μm/m-°C	5.28 μin/in-°F	ASTM C372
	@Temperature 25.0 - 1000 °C	@Temperature 77.0 - 1830 °F	
Thermal Conductivity	5.00 W/m-K	34.7 BTU-in/hr-ft ² -°F	ASTM C408
Maximum Service Temperature, Air	1400 °C	2550 °F	No Load

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.9	5.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Loss Index	0.0024	0.0024	at 25°C, 1 MHz; ASTM D2520

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