

Aremco AREMCOLOX™ 502-1400 (Bisque-fired) Machinable Alumina

Category : Ceramic , Machinable Ceramic , Oxide , Aluminum Oxide

Material Notes:

Good corrosion electrical and thermal shock resistance. Plates from 1/4" to 3/4" thick; rods from 1/4" to 3" diameter. Easily machined using conventional tools, no firing required.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-1400-Bisque-fired-Machinable-Alumina.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.00 g/cc	3.00 g/cc	
Porosity	25 %	25 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	1.0 - 2.0	1.0 - 2.0	
Flexural Strength	27.6 MPa	4000 psi	
Compressive Strength	62.1 MPa	9000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.30 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	3.50 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	4.32 W/m-K	30.0 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	1430 $^{\circ}\text{C}$	2600 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.5	5.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.15 kV/mm	80.0 kV/in	
Dissipation Factor	0.0030	0.0030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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