

Aremco AREMCOLOX™ 502-1100 (Unfired) Machinable Alumino-Silicate

Category : Ceramic , Machinable Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Good thermal and dielectric properties and can be fired to increase temperature resistance and mechanical strength. Easily machined to close tolerances. Plates, rods and bars available to 12".

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-1100-Unfired-Machinable-Alumino-Silicate.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.40 g/cc	2.40 g/cc	
Porosity	2.6 %	2.6 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	1.0 - 2.0	1.0 - 2.0	
Flexural Strength	31.0 MPa	4500 psi	
Compressive Strength	82.7 MPa	12000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	2.50 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	1.59 W/m-K	11.0 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	538 $^{\circ}\text{C}$	1000 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.8	5.8	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.15 kV/mm	80.0 kV/in	
Dissipation Factor	0.060	0.060	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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