

Aremco AREMCOLOX™ 502-1100 (Full-Fired) Dense Alumino-Silicate

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Good mechanical strength, and electrical and thermal resistance. For producing insulators, standoffs, feed-thrus, furnace carriers and brazing fixtures. Fabricate and fire yourself using conventional tools, no firing required.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-1100-Full-Fired-Dense-Alumino-Silicate.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.30 g/cc	2.30 g/cc	
Porosity	2.3 %	2.3 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	6.0	6.0	
Flexural Strength	68.9 MPa	10000 psi	
Compressive Strength	172 MPa	25000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.22 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	2.90 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	1.30 W/m-K	9.00 BTU-in/hr-ft ² - $^\circ\text{F}$	
Maximum Service Temperature, Air	1150 $^\circ\text{C}$	2100 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.3	5.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.94 kV/mm	100 kV/in	
Dissipation Factor	0.053	0.053	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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