

Aremco AREMCOLOX™ 502-600 Machinable Glass Ceramic

Category : Ceramic , Glass , Glass Ceramic , Machinable Ceramic

Material Notes:

High dielectric and mechanical strength. For high voltage insulators, lamp housings, thermal switches, and radiation parts. Readily machined, no firing required. Plates from 1/8" to 1" thick; rods from 1/4" to 1" diameter.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-600-Machinable-Glass-Ceramic.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.80 g/cc	2.80 g/cc	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	5.0	5.0	
Flexural Strength	96.5 MPa	14000 psi	
Compressive Strength	221 MPa	32000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.36 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.20 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.588 W/m-K	4.08 BTU-in/hr-ft ² - $^\circ\text{F}$	
Maximum Service Temperature, Air	593 $^\circ\text{C}$	1100 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.8	6.8	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.0 kV/mm	380 kV/in	
Dissipation Factor	0.012	0.012	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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