

Aremco AREMCOLOX™ 502-800 Macor Glass Ceramic (Unverified Data)**

Category : Ceramic , Glass , Glass Ceramic , Machinable Ceramic

Material Notes:

Recommended for temperatures to 1472°F (800°C) and peaks up to 1832°F (1000°C). Demonstrates low thermal conductivity, high strength, high electrical insulation, zero porosity, non-wetting, and coefficient of thermal expansion similar to most metals and sealing glasses.

Machines to tight tolerances up to 0.0005", surface finish of less than 20µin, and polishes to a smoothness of 0.5µin. Used for ultra high vacuum, aerospace, nuclear, welding, fixturing, and medical applications. Readily machined and no firing required. Bars, disks, rods and plates are available fro 1/16" thick up to 12" diameter.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-800-Macor-Glass-Ceramic-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.52 g/cc	2.52 g/cc	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	93.8 MPa	13600 psi	
Compressive Strength	345 MPa	50000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.6 µm/m-°C	7.00 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.46 W/m-K	10.2 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	800 °C	1470 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.0	6.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	30.9 kV/mm	785 kV/in	
Dissipation Factor	0.0050	0.0050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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