

COI Ceramics Nextel™ AS-N610 Oxide Ceramic Matrix Composite, Aluminosilicate

Category : Ceramic , Ceramic Matrix Composite , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Oxide ceramic matrix composites products are based upon sol-gel derived matrices and 3M Corporation's Nextel™ fiber products. These materials can be used up to 1200°C (2200°F) in air environments and are primarily used in both Aerospace and Gas Turbine applications. Ceramic Matrix System: Water Based Sol-Gel Processing, Versatile Matrix Chemistry Typical Applications for Oxide CMCs: Rotocraft Exhaust Systems, Advanced Thermal, Advanced Combustor Highest Strength Information from COI Ceramics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_COI-Ceramics-Nextel-AS-N610-Oxide-Ceramic-Matrix-Composite-Aluminosilicate.php

Physical Properties	Metric	English	Comments
Density	2.83 g/cc	0.102 lb/in ³	
Porosity	25 %	25 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength	365 MPa	52900 psi	
Tensile Stress	124 MPa	18000 psi	
	@Strain 0.100 %	@Strain 0.100 %	
	234 MPa	34000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	338 MPa	49000 psi	
	@Strain 0.300 %	@Strain 0.300 %	
Tensile Modulus	124 GPa	18000 ksi	
Shear Strength	15.0 MPa	2180 psi	Short Beam

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 μm/m-°C	4.44 μin/in-°F	
Maximum Service Temperature, Air	1000 °C	1830 °F	

Descriptive Properties	Value	Comments
Nominal Fiber Volume (%)	51	

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