

## COI Ceramics Nextel™ AS-N720 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 Temperature & Creep Performance Information from COI Ceramics, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_COI-Ceramics-Nextel-AS-N720-Oxide-Ceramic-Matrix-Composite-Aluminosilicate.php](http://www.lookpolymers.com/polymer_COI-Ceramics-Nextel-AS-N720-Oxide-Ceramic-Matrix-Composite-Aluminosilicate.php)

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in <sup>3</sup>	
Porosity	25 %	25 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength	220 MPa	31900 psi	
Tensile Stress	89.6 MPa @Strain 0.100 %	13000 psi @Strain 0.100 %	
	152 MPa @Strain 0.200 %	22000 psi @Strain 0.200 %	
	207 MPa @Strain 0.300 %	30000 psi @Strain 0.300 %	
Tensile Modulus	76.0 GPa	11000 ksi	
Shear Strength	14.3 MPa	2070 psi	Short Beam

Thermal Properties	Metric	English	Comments
CTE, linear	6.30 μm/m-°C	3.50 μin/in-°F	
Maximum Service Temperature, Air	1100 °C	2010 °F	

Descriptive Properties	Value	Comments
Nominal Fiber Volume (%)	45	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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