

COI Ceramics Friable Graded Insulation

Category : Ceramic

Material Notes:

Description: An example of a bonded product comprised of oxide spheres is Friable Graded Insulation or FGI. FGI can be bonded to an oxide ceramic matrix composite such as A/N720 to produce a CMC/FGI hybrid material that uses the thermal insulation properties of the FGI to increase the capability of the CMC. This has been effectively demonstrated in a land based gas turbine engine combustor liner. In this application a >20,000 hour life has been demonstrated in a Centaur 50S field test. Information from COI Ceramics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_COI-Ceramics-Friable-Graded-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	1.53 g/cc	0.0553 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength	7.58 MPa	1100 psi	
Tensile Modulus	22.06 GPa	3200 ksi	
Flexural Strength	13.8 MPa	2000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.70 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	3.72 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 1000 $^{\circ}\text{C}$	@Temperature 1830 $^{\circ}\text{F}$	
Thermal Conductivity	1.22 W/m-K	8.47 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 900 $^{\circ}\text{C}$	@Temperature 1650 $^{\circ}\text{F}$	

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