

BNZ Materials Zeliblok 1900S Structural Ceramic Insulation

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Zeliblok-1900S-Structural-Ceramic-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.224 g/cc	0.00810 lb/in ³	
Density	0.625 g/cc	0.0226 lb/in ³	ASTM C134

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00190 GPa	0.276 ksi	ASTM C133
Compressive Strength	2.60 MPa	377 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	3.33 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 1093 $^{\circ}\text{C}$	@Temperature 68.0 - 1999 $^{\circ}\text{F}$	
Thermal Conductivity	0.0600 W/m-K	0.416 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C182
	@Temperature 200 $^{\circ}\text{C}$	@Temperature 392 $^{\circ}\text{F}$	
	0.0800 W/m-K	0.555 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C182
	@Temperature 400 $^{\circ}\text{C}$	@Temperature 752 $^{\circ}\text{F}$	
	0.100 W/m-K	0.694 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C182
	@Temperature 600 $^{\circ}\text{C}$	@Temperature 1110 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	1000 $^{\circ}\text{C}$	1830 $^{\circ}\text{F}$	
Shrinkage	1.00 %	1.00 %	
	@Temperature 1050 $^{\circ}\text{C}$, Time 43200 sec	@Temperature 1920 $^{\circ}\text{F}$, Time 12.0 hour	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	0.20 %	0.20 %	
CaO	45 %	45 %	
Fe ₂ O ₃	0.20 %	0.20 %	

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	8.0 %	8.0 %	
MgO	0.10 %	0.10 %	
SiO2	45 %	45 %	
TiO2	0.70 %	0.70 %	

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