

## BNZ Materials Zeliblok 2000S 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-2000S-Structural-Ceramic-Insulation.php](http://www.lookpolymers.com/polymer_BNZ-Materials-Zeliblok-2000S-Structural-Ceramic-Insulation.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.260 g/cc	0.00937 lb/in <sup>3</sup>	
Density	0.705 g/cc	0.0255 lb/in <sup>3</sup>	ASTM C134

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00120 GPa	0.174 ksi	ASTM C133
Compressive Strength	1.60 MPa	232 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.33 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 1093 °C	@Temperature 68.0 - 1999 °F	
Thermal Conductivity	0.0700 W/m-K	0.486 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C182
	@Temperature 200 °C	@Temperature 392 °F	
	0.0900 W/m-K	0.625 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C182
	@Temperature 400 °C	@Temperature 752 °F	
	0.100 W/m-K	0.694 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C182
	@Temperature 600 °C	@Temperature 1110 °F	
Maximum Service Temperature, Air	1100 °C	2010 °F	
Shrinkage	1.00 %	1.00 %	
	@Temperature 1050 °C, Time 43200 sec	@Temperature 1920 °F, Time 12.0 hour	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	0.30 %	0.30 %	
CaO	45 %	45 %	
Fe <sub>2</sub> O <sub>3</sub>	0.30 %	0.30 %	

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	6.0 %	6.0 %	
MgO	0.60 %	0.60 %	
SiO2	47 %	47 %	
TiO2	0.10 %	0.10 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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