

## BNZ Materials Bazelite 2300 LI Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Blazelite 2300 L is similar to Blazelite 2300 but suitable for those applications where reducing conditions might be encountered. These high purity, low iron products are specifically designed for both back-up and exposed to furnace combustion. Information provided by BNZ Materials Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BNZ-Materials-Bazelite-2300-LI-Insulating-Castable.php](http://www.lookpolymers.com/polymer_BNZ-Materials-Bazelite-2300-LI-Insulating-Castable.php)

Physical Properties	Metric	English	Comments
Density	0.977 g/cc	0.0353 lb/in <sup>3</sup>	Fired at 5 hrs at 816°C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000340 GPa	0.0493 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.000400 GPa	0.0580 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.000620 GPa	0.0899 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.000900 GPa	0.131 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
	0.00103 GPa	0.149 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
Compressive Strength	2.21 MPa	320 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	2.83 MPa	410 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
	2.96 MPa	430 psi	Cold Crush Strength
	@Temperature 1260 °C	@Temperature 2300 °F	
	2.83 MPa	410 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	
	4.83 MPa	700 psi	Cold Crush Strength; Dried 104°C

Mechanical Properties	@Treatment Temp. 104 Metric	@Treatment Temp. 219 English	Comments
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Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	0.10 % @Temperature 540 °C	0.10 % @Temperature 1000 °F	Permanent Linear Change; ASTM C210
	0.20 % @Temperature 815 °C	0.20 % @Temperature 1500 °F	
	0.40 % @Temperature 1095 °C	0.40 % @Temperature 2003 °F	
	1.0 % @Temperature 1260 °C	1.0 % @Temperature 2300 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	41.3 %	41.3 %	
CaO	14.1 %	14.1 %	
Fe2O3	0.90 %	0.90 %	
MgO	0.20 %	0.20 %	
Na2O	1.2 %	1.2 %	Includes K<sub>2</sub>O
SiO2	41 %	41 %	
TiO2	1.6 %	1.6 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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