

## Zircar Ceramics ECO-1200B Alumina-Silica Insulation

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

This utility grade board is produced with or without organic binder. Useful to temperatures of 1260°C (2300°F) ECO-1200 is part of hundreds of different thermal process systems. Information provided by Zircar Ceramics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Ceramics-ECO-1200B-Alumina-Silica-Insulation.php](http://www.lookpolymers.com/polymer_Zircar-Ceramics-ECO-1200B-Alumina-Silica-Insulation.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.300 g/cc	0.0108 lb/in <sup>3</sup>	
Loss On Ignition	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000230 GPa	0.0334 ksi	As Received, Parallel to thickness
	0.000230 GPa @Temperature 760 °C, Time 86400 sec	0.0334 ksi @Temperature 1400 °F, Time 24.0 hour	Parallel to Thickness
Compressive Yield Strength	0.0700 MPa	10.2 psi	at 10% Compression, Parallel to thickness

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0550 W/m-K	0.382 BTU-in/hr-ft <sup>2</sup> -°F	Parallel to Thickness
	@Temperature 200 °C	@Temperature 392 °F	
	0.110 W/m-K	0.763 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	0.205 W/m-K	1.42 BTU-in/hr-ft <sup>2</sup> -°F	Parallel to Thickness
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1200 °C	2190 °F	
Shrinkage	0.500 %	0.500 %	Perpendicular to Thickness
	@Temperature 760 °C, Time 86400 sec	@Temperature 1400 °F, Time 24.0 hour	
	2.50 %	2.50 %	Parallel to Thickness
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	
	3.50 %	3.50 %	

Thermal Properties	Metric	English	Perpendicular to Thickness Comments
	@ Temperature 1000 °C, Time 86400 sec	@ Temperature 1830 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	35 %	35 %	
SiO2	64 %	64 %	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.06 kV/mm	27.0 kV/in	

Descriptive Properties	Value	Comments
Color	White	

## Contact Songhan Plastic Technology Co.,Ltd.

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