

Zircar Ceramics ECO-27A 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-27 offers exceptional strength and durability. Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-ECO-27A-Alumina-Silica-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.430 g/cc	0.0155 lb/in ³	
Loss On Ignition	5.0 %	5.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00198 GPa	0.287 ksi	As Received, Parallel to thickness
	0.000820 GPa @Temperature 1260 °C, Time 86400 sec	0.119 ksi @Temperature 2300 °F, Time 24.0 hour	Parallel to Thickness
Compressive Yield Strength	0.340 MPa	49.3 psi	at 10% Compression, Parallel to thickness

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.19 J/g-°C	0.284 BTU/lb-°F	
	@Temperature 1090 °C	@Temperature 2000 °F	
Thermal Conductivity	0.0550 W/m-K	0.382 BTU-in/hr-ft ² -°F	Parallel to Thickness
	@Temperature 200 °C	@Temperature 392 °F	
	0.130 W/m-K	0.902 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	Parallel to Thickness
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1260 °C	2300 °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

Thermal Properties	@Temperature 1000 °C, Metric Time 86400 sec	@Temperature 1830 °F, English Time 24.0 hour	Comments
	3.50 %	3.50 %	Perpendicular to Thickness
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	33 %	33 %	
Other	1.0 %	1.0 %	Other Metal Oxides
	5.0 %	5.0 %	Organic Content
SiO2	61 %	61 %	

Descriptive Properties	Value	Comments
Color	Off White	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China