

## Zircar Refractory Composites RS-99W Refractory Sheet

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Type RS-99W boards can be moistened with water and molded into any desired shape. After low temperature bake-out of 300°C (570°F) boards are unaffected by moisture. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Refractory-Composites-RS-99W-Refractory-Sheet.php](http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RS-99W-Refractory-Sheet.php)

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 lb/in <sup>3</sup>	
Loss On Ignition	4.0 - 5.0 %	4.0 - 5.0 %	
Porosity	48 %	48 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0180 GPa	2.61 ksi	parallel to thickness
Compressive Yield Strength	25.6 MPa	3710 psi	at 10% deflection, parallel to thickness

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.047 J/g-°C	0.2502 BTU/lb-°F	
Melting Point	>= 1800 °C	>= 3270 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	
Shrinkage	0.300 - 1.00 %	0.300 - 1.00 %	
	@Temperature 1200 °C, Time 3600 sec	@Temperature 2190 °F, Time 1.00 hour	
	3.00 - 5.00 %	3.00 - 5.00 %	
	@Temperature 1200 °C, Time 3600 sec	@Temperature 2190 °F, Time 1.00 hour	
	8.00 - 10.0 %	8.00 - 10.0 %	
	@Temperature 1600 °C, Time 3600 sec	@Temperature 2910 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	>= 99 %	>= 99 %	

Descriptive Properties	Value	Comments
Color	White	

## Contact Songhan Plastic Technology Co.,Ltd.

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