

## Zircar Refractory Composites RS-99R Refractory Sheet

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Type RS-99R boards are prefired and are unaffected by moisture. They stay rigid even if saturated with water. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 lb/in <sup>3</sup>	
Loss On Ignition	0.00 - 1.0 %	0.00 - 1.0 %	
Porosity	48 %	48 %	
Specific Surface Area	14 m <sup>2</sup> /g	14 m <sup>2</sup> /g	3pt. B.E.T.

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0218 GPa	3.16 ksi	parallel to thickness
Compressive Yield Strength	30.1 MPa	4370 psi	at 10% deflection, parallel to thickness

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Specific Heat Capacity	1.047 J/g-°C	0.2502 BTU/lb-°F	
Thermal Conductivity	0.650 W/m-K	4.51 BTU-in/hr-ft <sup>2</sup> -°F	parallel to thickness
Melting Point	>= 1800 °C	>= 3270 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	
Shrinkage	0.300 - 0.400 %	0.300 - 0.400 %	
	@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 - 11.0 %	8.00 - 11.0 %	

Thermal Properties	Metric @Temperature 1600 °C, Time 3600 sec	English @Temperature 2910 °F, Time 1.00 hour	Comments
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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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