

## Zircar Refractory Composites RSLE-56 MOLDABLE Refractory Sheet

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

ZIRCAR Refractory Sheet Type RSLE-56 Moldable is a high silica fiber reinforced ceramic composite material that is easily cut and formed into flat sheets in addition to a wide variety of simple and complex shapes. When dried RSLE-56 Moldable becomes a hard rigid structure. Further heat treatment or exposure to process temperatures significantly increases the physical strength of this material. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Refractory-Composites-RSLE-56-MOLDABLE-Refractory-Sheet.php](http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RSLE-56-MOLDABLE-Refractory-Sheet.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	
Solids Content	73 %	73 %	
Loss On Ignition	2.0 %	2.0 %	
Porosity	36 %	36 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	dry
	70	70	10 hrs at 370°C
	83	83	16 hrs at 1000°C
Modulus of Rupture	0.00758 GPa	1.10 ksi	dry
	0.0159 GPa	2.31 ksi	10 hrs at 370°C
	0.0262 GPa @Temperature 1000 °C, Time 57600 sec	3.80 ksi @Temperature 1830 °F, Time 16.0 hour	
Compressive Yield Strength	49.6 MPa	7190 psi	at 7% consolidation, 16 hrs at 1000°C
	11.7 MPa @Temperature 23.0 °C	1700 psi @Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.550 W/m-K	3.82 BTU-in/hr-ft <sup>2</sup> -°F	parallel to thickness; ASTM C1113
	@Temperature 200 °C	@Temperature 392 °F	
	0.610 W/m-K	4.23 BTU-in/hr-ft <sup>2</sup> -°F	

Thermal Properties	Metric	English	Comments
	0.750 W/m-K @Temperature 600 °C	5.20 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 1110 °F	parallel to thickness; ASTM C1113
	@Temperature 1000 °C	@Temperature 1830 °F	parallel to thickness; ASTM C1113
Shrinkage	2.0 %	2.0 %	linear
	3.0 %	3.0 %	thickness

Component Elements Properties	Metric	English	Comments
Other	<= 1.0 %	<= 1.0 %	
SiO2	99 %	99 %	

Descriptive Properties	Value	Comments
Color	White	

## Contact Songhan Plastic Technology Co.,Ltd.

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