

Zircar Refractory Composites RS-DR Refractory Sheet

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

TYPE RS-DR is a rigid pre-fired sheet that has been heat-treated to remove all organic binder and is stable to moisture attack. Refractory Sheet Type RS-DR is suited for use as a setter or barrier for use in the sintering of powder metal parts. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RS-DR-Refractory-Sheet.php

Physical Properties	Metric	English	Comments
Density	2.08 g/cc	0.0751 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	3.00 GPa	435 ksi	
Compressive Yield Strength	68.9 MPa	9990 psi	at 5% compression
	138 MPa	20000 psi	at 8% compression

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.250 J/g-°C	0.0598 BTU/lb-°F	
Thermal Conductivity	7.78 W/m-K @Temperature 600 °C	54.0 BTU-in/hr-ft ² -°F @Temperature 1110 °F	
Melting Point	1815 °C	3299 °F	
Maximum Service Temperature, Air	1200 °C	2190 °F	
Shrinkage	5.00 % @Temperature 1200 °C, Time 86400 sec	5.00 % @Temperature 2190 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	90 %	90 %	
SiO2	10 %	10 %	

Electrical Properties	Metric	English	Comments
Dielectric Strength	0.0209 kV/mm	0.530 kV/in	
Arc Resistance	360 sec	360 sec	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Moisture Content	2.0 %	2.0 %	depending on humidity

Descriptive Properties	Value	Comments
Color	White	

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