

MarkeTech Repton 835 Zirconia + 4 mol% Calcia

Category : Ceramic , Oxide , Zirconium Oxide

Material Notes:

Brand 835 features: High porosity. REPTON setter tiles, kiln furniture, and special fixtures are lightweight, ridge, and high strength ceramics that resist distortion and spalling, even when thermal cycled many times. They are available with a smooth or a unique textured surface that permits pinpoint contact with the load. Sticking can be eliminated as well as providing a surface that breathes, allowing gasses from the ceramic to escape. Applications include firing ceramic capacitors, SOFCs, PZTs, hard and soft ferrites, co-fired substrates and powdered metals. REPTON is available in a wide range of compositions that include a range of alumina, mullite/alumina, zirconia, cordierite, magnesia, and aluminum titanate.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Repton-835-Zirconia-4-mol-Calcia.php

Physical Properties	Metric	English	Comments
Bulk Density	3.30 g/cc	0.119 lb/in ³	
Density	5.79 g/cc	0.209 lb/in ³	calculated from bulk density after subtracting pore volume
Porosity	43 %	43 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 22.0 MPa	>= 3190 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 300 $\text{Å}^\circ\text{C}$	@Temperature 572 $\text{Å}^\circ\text{F}$	
	8.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 900 $\text{Å}^\circ\text{C}$	@Temperature 1650 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
CaO	4.0 %	4.0 %	
ZrO2	96 %	96 %	

Descriptive Properties	Value	Comments
Spall Resist	350 $\text{Å}^\circ\text{C}$	

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