

## MarkeTech Repton 838 Zirconia + 3 mol% Yttria (YSZ)

Category : Ceramic , Oxide , Zirconium Oxide

**Material Notes:**

Brand 838 features: Co-precipitation; high strength. 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-838-Zirconia-3-mol-Yttria-YSZ.php](http://www.lookpolymers.com/polymer_MarkeTech-Repton-838-Zirconia-3-mol-Yttria-YSZ.php)

Physical Properties	Metric	English	Comments
Density	6.10 g/cc	0.220 lb/in <sup>3</sup>	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 1050 MPa	>= 152000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.70 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.39 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 300 $\text{Å}^\circ\text{C}$	@Temperature 572 $\text{Å}^\circ\text{F}$	
	10.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.72 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 900 $\text{Å}^\circ\text{C}$	@Temperature 1650 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Y2O3	3.0 %	3.0 %	
ZrO2	97 %	97 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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