

## MarkeTech Repton 827 Zirconia + 3 mol% Yttria (YSZ)

Category : Ceramic , Oxide , Zirconium Oxide

**Material Notes:**

Brand 827 features: Co-precipitation 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-827-Zirconia-3-mol-Yttria-YSZ.php](http://www.lookpolymers.com/polymer_MarkeTech-Repton-827-Zirconia-3-mol-Yttria-YSZ.php)

Physical Properties	Metric	English	Comments
Bulk Density	4.10 g/cc	0.148 lb/in <sup>3</sup>	
Density	5.86 g/cc	0.212 lb/in <sup>3</sup>	calculated from bulk density after subtracting pore volume
Porosity	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 96.0 MPa	>= 13900 psi	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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