

## MarkeTech Repton 848 Zirconia + 3 mol% Yttria (YSZ)

Category : Ceramic , Oxide , Zirconium Oxide

### Material Notes:

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-848-Zirconia-3-mol-Yttria-YSZ.php](http://www.lookpolymers.com/polymer_MarkeTech-Repton-848-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 Åµm/m-Å°C	5.39 Åµin/in-Å°F	
	@Temperature 300 Å°C	@Temperature 572 Å°F	
	10.3 Åµm/m-Å°C	5.72 Åµin/in-Å°F	
	@Temperature 900 Å°C	@Temperature 1650 Å°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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