

MarkeTech Repton EXP 36 Cordierite Mullite

Category : Ceramic , Oxide , Aluminum 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-EXP-36-Cordierite-Mullite.php

Physical Properties	Metric	English	Comments
Bulk Density	1.90 g/cc	0.0686 lb/in ³	
Density	2.79 g/cc	0.101 lb/in ³	calculated from bulk density after subtracting pore volume
Porosity	32 %	32 %	

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	3.33 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 300 C°	@Temperature 572 F°	
	7.80 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	4.33 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 900 C°	@Temperature 1650 F°	

Descriptive Properties	Value	Comments
Spall Resist	950 C°	

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