

DATASHEET: MULLITE MATERIALS

PROPERTIES	Units	EM60	EM60P	EM80P
Physical Properties				
% Alumina **	% wt	62	60	80
% Silica **	% wt	36	39	19
Density	g/cm ³	2.7	2.3	2.4
Open Porosity	%	0	22	27
Thermal Properties				
Max Operating Temp	°C	1600	1400	1500
Max Operating Temp	°F	2912	2552	2732
Thermal Conductivity (20 - 100oC)	W/m°K	5	1.5	2
Coefficient Thermal Expansion	x10 ⁻⁶ K ⁻¹	5.5	6.5	5.8
Mechanical Properties				
Flexural Strength	psi	23000	5400	5500
Hardness- Mohs	Mohs	8	-	-
Tensile Strength	psi	-	-	-
Electrical Properties				
Volume Resistivity at 20°C	ohm - cm	10 ¹³	-	-
Volume Resistivity at 600°C	ohm - cm	10 ⁶	10 ⁶	10 ⁶
Dielectric Constant	25°C & 1 mhz	6	-	-

** - Full Chemical Analysis Available On Request

Additional material properties are available - please ask at enquiries@earthwaterfire.com

These values were established on test pieces and identify the characteristic data of our products. Transferring of these values into practice depends on individual geometry and application of each part.

For Further Information contact us at: enquiries@earthwaterfire.com