

### DATASHEET: MULLITE MATERIALS

PROPERTIES	Units	EM60	EM60P	EM80P
<b>Physical Properties</b>				
% Alumina **	% wt	62	60	80
% Silica **	% wt	36	39	19
Density	g/cm <sup>3</sup>	2.7	2.3	2.4
Open Porosity	%	0	22	27
<b>Thermal Properties</b>				
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 <sup>-6</sup> K <sup>-1</sup>	5.5	6.5	5.8
<b>Mechanical Properties</b>				
Flexural Strength	psi	23000	5400	5500
Hardness- Mohs	Mohs	8	-	-
Tensile Strength	psi	-	-	-
<b>Electrical Properties</b>				
Volume Resistivity at 20°C	ohm - cm	10 <sup>13</sup>	-	-
Volume Resistivity at 600°C	ohm - cm	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>6</sup>
Dielectric Constant	25°C & 1 mhz	6	-	-

\*\* - Full Chemical Analysis Available On Request

Additional material properties are available - please ask at [enquiries@earthwaterfire.com](mailto: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](mailto:enquiries@earthwaterfire.com)**