

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	1400	1400	1500
Max Operating Temp	°F	2552	2552	2732
Thermal Conductivity (20 - 100oC)	W/m <sup>o</sup> 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)

The values given on this data sheet were established on test pieces and identify the characteristic data of our products. These values should be used for guidance only as actual values will depend on individual geometry and application of each part.

**For Further Information contact us at: [enquiries@earthwaterfire.com](mailto:enquiries@earthwaterfire.com)**