

## *Sierra Gray Granite Physical Properties*

<b>Absorption</b>	
% by weight	0.31
<b>Density</b>	
lbs/ft <sup>3</sup> (kg/m <sup>3</sup> )	167.3 (2,680)
Conv: lb/ft <sup>3</sup> x16.0283=kg/m <sup>3</sup>	
<b>Modulus of Rupture</b>	
lbs/in <sup>2</sup> (Mpa)	1,890 (13.0)
Conv: x,xxxpsi/145=Mpa	
<b>Compressvie Strength</b>	
lbs/in <sup>2</sup> (Mpa)	24,200 (167)
Conv: x,xxxpsi/145=Mpa	
<b>Abrasion Resistance</b>	
Ha (mm)	61.0
<b>Flexural Strength</b>	
lbs/in <sup>2</sup> (Mpa)	1,600 (11.0)
Conv: x,xxxpsi/145=Mpa	
<b>Flexural Modulus of Elasticity</b>	
<b><u>Parallel</u></b> to Rift Direction	3.38E+06 (23.3)
lbs/in <sup>2</sup> (Gpa)	
Conv: x.xxE+06psi/.145=Gpa	
<b>Flexural Modulus of Elasticity</b>	
<b><u>Perpendicular</u></b> to Rift Direction	3.26E+06 (22.5)
lbs/in <sup>2</sup> (Gpa)	
Conv: x.xxE+06psi/.145=Gpa	
<b>Thermal Conductivity</b>	
(W/m-K at 20°C)	(2.69)
<b>Coefficient of Thermal Expansion</b>	
in/in-°F at 68°F (m/m-°C at 20°C)	3.36 E-06(6.04E-06)
Conv: [x.xxE-06in/in-°F]x1.8=m/m-°C	

