

Zimbabwe Black Granite Physical Properties

Absorption	
% by weight	0.03
Density	
lbs/ft ³ (kg/m ³)	192.4 (3,081)
Conv: lb/ft ³ x16.0283=kg/m ³	
Modulus of Rupture	
lbs/in ² (Mpa)	4,670 (32.1)
Conv: x,xxxpsi/145=Mpa	
Compressvie Strength	
lbs/in ² (Mpa)	43,680 (301.1)
Conv: x,xxxpsi/145=Mpa	
Flexural Strength	
lbs/in ² (Mpa)	2,980 (20.6)
Conv: x,xxxpsi/145=Mpa	
Flexural Modulus of Elasticity	
<u>Parallel</u> to Rift Direction	9.92E+06 (68.4)
lbs/in ² (Gpa)	
Conv: x.xxE+06psi/.145=Gpa	
Flexural Modulus of Elasticity	
<u>Perpendicular</u> to Rift Direction	1.17E+07 (80.7)
lbs/in ² (Gpa)	
Conv: x.xxE+06psi/.145=Gpa	
Thermal Conductivity	
(W/m-K at 20°C)	(2.68)
Coefficient of Thermal Expansion	
in/in-°F at 68°F (m/m-°C at 20°C)	2.68E-06 (6.04E-06)
Conv: [x.xxE-06in/in-°F]x1.8=m/m-°C	

