



Richlite Properties

Distributed by
Freeman Manufacturing & Supply Co.
www.freemansupply.com (800) 321-8511 

Density

75.84 pounds per cubic foot or
.0439 per cubic inch

Water Absorption

1.55% by weight

Specific Gravity

1.213, which means that Richlite
is 21% heavier than water by
volume

Thermal Properties

Coeff. of Thermal Expansion in X Dir (in/in. F°).....5.2
Coeff. of Thermal Expansion in Y Dir (in/in. F°)12.8
Coeff. of Thermal Expansion in Z Dir (in/in. F°)45.9/73.5”
Thermal Conductivity (Cal cm/cm2 sec C°).....0.00051

Tensile Strength

X Direction (psi).....13,100
Y Direction (psi)19,200

Compressive Strength

X Direction (psi)15,900
Strain @ Failure7.15%
Y Direction (psi)18,400
Strain @ Failure.....7.09%
Z Direction (psi)30,000
Strain at Failure 20%

Flexural Strength (Face in Tension)

X Direction (psi).....22,000
Y Direction (psi)17,300

Flexural Strength (Edge in Tension)

X Direction (psi).....20,400
Y Direction (psi)16,100

Izod Impact (Face Impact)

X Direction (ft. lb. Per Inch of Width).....2.48
Y Direction (ft. lb. Per Inch of Width).....1.46

Izod Impact (Edge Impact)

X Direction (ft. lb. Per Inch of Width).....0.68
Y Direction (ft. lb. Per Inch of Width).....0.62