

OMNIROC® PHYSICAL & MECHANICAL PROPERTIES

PHYSICAL PROPERTIES

Test	Standard	Values/Results
Density - Oven Dry	ASTM D1037	± 89.6 lbs/ft³
Swelling - 24 hr Water Immersion	ASTM D1037	Thickness = 0.73%
Freeze/Thaw - 50 Cycles	ASTM E2485.06	No Effect
Moisture Content (65% Relative Humidity)	ASTM D1037	4.50%
PH	Manufacturer	11 - 12
Coefficient of Linear Thermal Expansion (50%-90% Relative Humidity)	ASTM D1037	Length = 2.0 x 10 ⁻⁶ in/in/8F Weight = 3.6 x 10 ⁻⁵ in/in/8C
Linear variation With Change in Moisture (50%-90% Relative Humidity)	ASTM D1037	Parallel to fibers = .02 % Perpendicular to fibers = .02 %
Asbestos	MSDS	ZERO
Formaldehyde	MSDS	ZERO
Silica	MSDS	ZERO

MECHANICAL PROPERTIES

Test	Standard	Values/Results
Modulus of Elasticity, psi	ASTM C120	1,509,400
Modulus of Rupture, psi	ASTM C120	2800
Sheer Strength, psi	ASTM D732	5375
Tensile Strength, psi	ASTM D1037	1067
Compressive Strength, psi	ASTM D1037	4770
Concentrated Static Load Test	ASTM E661	(coming soon)
Impact Load Test - 1/2" (12mm)	ASTM E661/D256	.59 ft. lbs.

COMBUSTION CHARACTERISTICS

CATEGORY	VALUE	TEST STANDARD
Non-combustible	Passed Ten Minute Duration	ASTM E136
Flame Spread/Smoke Development	Class A Zero Flame/Zero Smoke	ASTM E84
Fire Resistant Ratings	1 & 2 Hour Floor/Ceiling Assemblies	ASTM E119 (coming soon)