

# Latitudes® Material Properties



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Property	Test Method	Result
Flame Spread	ASTM E 84	90
Smoke Development	ASTM E 84	200
Flash Ignition Temp (F)	ASTM D 1929	671
Self Ignition Temp (F)	ASTM D 1929	817
Coefficient of Thermal Expansion	ASTM D 696	1.6x10 <sup>-5</sup>
Flexural Modulus MOE (psi)	ASTM D 6109	554,985
Flexural Strength MOR (psi)	ASTM D 6109	3,467
Tensile Modulus MOE (psi)	ASTM D 790	450,000
Tensile Strength (psi)	ASTM D 638	1,200
Compressive Strength (psi)	ASTM D 143	2,350
Specific Gravity (gm/cc)	ASTM D 2395	1.2
Coefficient of Friction	ASTM F 1679-96	
Dry		0.53
Wet		0.53
Screw Withdraw #10 wood screw (lbs.)	ASTM D 1761	880
Screw Head Pull-through #9 screw (lbs.)	ASTM D 1761	909
Fungus Resistance (18 month)	AWPA E7-93	
Decay (Brown and White Rot)		Pass
Termites (Formosan Sub.)	AWPA E7-93	Pass
UV Exposure	ASTM D 6662	
MOR Degrade		-4.30%
MOE Degrade		-7.50%
Moisture Absorption	ASTM D 1037	1.70%
Hardness (lbs.)	ASTM D 143	1,390
Thermal Conductivity (Btu/hr/ft <sup>2</sup> /°F)	ASTM C 177	2.03



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