



PO Box 514
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Structural Reinforced Plastic Lumber

TEST	ASTM #	Value	Units	Metric Value	Units
Flexural Strength	D6109	2750	PSI	193	Kg/cm ²
Flexural Modulus Secant @ 1% Strain	D6109	306080	PSI	21520	Kg/cm ²
Compression Strength Parallel to grain	D6108	2842	PSI	200	Kg/cm ²
Compression Strength Perpendicular to grain	D6108	1482	PSI	104	Kg/cm ²
Compression Modulus Strength Parallel to grain Secant @ 1% Strain	D6108	159576	PSI	11219	Kg/cm ²
Compression Modulus Strength Perpendicular to grain Secant @ 1% Strain	D6108	54119	PSI	3804	Kg/cm ²
Average Screw Pull Out	D6117	646	LB	293	Kg
Specific Gravity	D6111	0.93	g/cc	0.93	g/cc
Flash Point		644	Deg F	340	Deg C
Moisture Absorption		.06%	% by Weight	0.06	% by Weight
Thermal Expansion	D6341-98	0.000033	(in /in / deg)		
Static Coefficient of Friction Dry	D2394-83(99)	.53			
Static Coefficient of Friction Wet	D2394-83(99)	.51			
Sliding Coefficient of Friction Dry	D2394-83(99)	.23			
Sliding Coefficient of Friction Wet	D2394-83(99)	.51			
Flame Spread	E84(03a)	62			
Flame Spread Classification	E84(03a)	60			
Smoke Developed	E84(03a)	230			
Smoke Developed Classification	E84(03a)	250			
Spontaneous Ignition	D-1929	824	(Deg F)	440	Deg C
Tensile test (skin)	D638	3623	PSI	254	Kg/cm ²
Shear Strength	D2344	800	PSI	56	Kg/cm ²
Notched impact resistance Method A	D256	2.77	Ft*LB/IN		
Abrasion resistance	D4060	<0.02	Oz-with 2.2 lb sample		
Ultraviolet (skin)	D4329	< 10	% Change in Type D durometer at 500 hrs		

This data represents average values NOT minimums. Safety factor must be added in for design.



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Chemical Resistance

High-density polyethylene has a high resistance to most acids and chemicals. Plastic Lumber is not affected by exposure to most substances.

Ultraviolet Weathering

An ultraviolet stabilizer is also incorporated at the time of manufacture, which protects the plastic from ultraviolet light degradation. This insures that the outside of the product will not degrade in exterior applications.

Creep Data

Creep data show the deflection amount in percent strain from a load being applied to a specimen of plastic lumber over time. Reinforced Plastic Lumber has much lower deflection when a load is first applied and also has much reduced deflection over time with the load applied. This makes the reinforced lumber product much superior in applications that have higher structural demands.