

TECHNICAL DATA

FiberForce® Structural Plastic Lumber

Test Methods

Test	English Units			Metric Units		
	ASTM Test	Value	Units	Value	Units	
Flexural Strength	D6109-97	2750	PSI	193	Kg/cm ²	
Flexural Modulus	D6109-97	306080	PSI	21520	Kg/cm ²	
Compression Strength	D6108-97	2340	PSI	165	Kg/cm ²	
Compression Modulus	D6108-97	114900	PSI	8077	Kg/cm ²	
Specific Gravity	D6111-97	0.93	g/cc	0.93	g/cc	
Flash point		644	Deg F	340	Deg C	
Moisture Absorption		0.06	% by Weight	0.06	% by Weight	
Thermal Expansion	D6341-98	0.000033	Inch/Inch/Deg F			
Average Nail pull out	D6117-97	504	Lbs	229	Kg	
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	

This data represents average values NOT Minimums. Safety factors must be added in to the design.

Chemical Resistance

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

Ultraviolet Weathering

An ultraviolet stabilizer is incorporated at the time of manufacture. It protects the plastic from ultraviolet light degradation and ensures that the outside of the product will not degrade in exterior applications.