



Technical Data Structural Grade Plastic Lumber

TEST	ASTM TEST	English Units		Metric Units	
		VALUE	UNITS	VALUE	UNITS
Flexural Strength	D6109-97	2750	PSI	193	KG/CM ²
Flexural Modulus	D6109-97	306080	PSI	15503	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

Notes:

- **THIS DATA REPRESENTS AVERAGE VALUES NOT MINIMUMS. SAFETY FACTORS MUST BE ADDED INTO THE DESIGN.**
- Testing conducted by Battelle of Columbus, OH
- Warnock Hershey Certified for ASTM D6662-01 by Intertek Testing Services NA Ltd. of Coquitlam, BC.
- For further information on our ASTM standards please contact your Plastic Lumber Yard representative.
- For further information on Intertek Testing Services NA Ltd. and the Warnock Hershey certification, please contact ITS at: www.ETLSemko.com
- For Further information and their processes please contact ASTM at: www.astm.org

Chemical Resistance

Since 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 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.