

# HARD TOOL (MOLDED) PROCESS

## SELECTFORCE® PLASTIC LUMBER TECHNICAL DATA

**DESCRIPTION:**

Plastic lumber shall be manufactured with recycled HDPE. Lumber shall be molded in one piece per specified size. All materials will have UV additives to prevent deterioration of the plastic lumber from exposure to UV light. HDPE will be made up of a minimum of 95% recycled material; both post industrial and post consumer. Finished plastic lumber will not rot, split, crack or splinter for a minimum of 50 years. It shall be resistant to termites, marine borers, salt spray, oil, and fungus.

TEST	ASTM TEST	ENGLISH		METRIC	
		VALUE	UNITS	VALUE	UNITS
Flexural Strength	D6109	1355	PSI	95	Kg/cm <sup>2</sup>
Flexural Modulus Secant @ 1% strain	D6109	95939	PSI	6744	Kg/cm <sup>2</sup>
Compression Strength (parallel to grain)	D6108	1420	PSI	100	Kg/cm <sup>2</sup>
Compression Modulus Secant @1% strain (parallel to grain)	D6108	51000	PSI	3585	Kg/cm <sup>2</sup>
Compression Strength (perpendicular to grain)	D6108	650	PSI	45	Kg/cm <sup>2</sup>
Specific Gravity	D6111	53.7	Lbs./ft <sup>3</sup>	0.861	g/cc
Moisture Absorption		0.06	% by Weight	0.06	% by Weight
Flash Point		644	Deg F°	340	Deg C°
Spontaneous Ignition	D1929	824	Deg F°	440	Deg C°
Flame Spread	E84	>200			
Smoke Developed	E84	>700			
Thermal Expansion	D6341	0.000055	Inch/Inch/Deg F°		
Average Screw pull out	D6117	646	Lbs	293	Kg
Static coefficient of Friction-Dry	D2394	.48			
Static coefficient of Friction-Wet	D2394	.40			
Sliding coefficient of Friction-Dry	D2394	.22			
Sliding coefficient of Friction-Wet	D2394	.43			

**MECHANICAL PROPERTIES:**

FACE WIDTH	4"	6"	8"	10"	12"
Tolerance (+/-)	3/32"	1/8"	3/16"	1/4"	1/4"

**DIMENSIONAL TOLERANCES:**

**CUP/BULDGE TOLERANCES**-deviation in the face from a straight line from edge to edge of piece.

**LENGTH TOLERANCE = + 3" / -0" - MEASURED AT 70°F**

**WARNING:** SelectForce® plastic lumber is flammable and should not be placed near combustible material or used for indoor applications.

SDS Sheets available upon request.

The technical data on this page represents only average values and not minimum values. Safety factors must be added into the design. See the Bedford Technology plastic lumber design guide for specifics.