

PolyScape™ Product Specification

Product Description:

Nominal and special dimension plastic lumber profiles using a mixture of chemical foaming agents, colorants, polyolefins, and fiberglass.

Raw Material Specifications:

Plastic: Proprietary Blend of Polypropylene, HDPE, Fiberglass, and TPE

Height and Width Specifications:

All nominal plastic lumber dimensions follow commonly accepted wood profile dimensions
Example: 2X4 Nominal = 1.5X3.5 Actual

All nominal dimension lumber:
Nominal Width +/- .0625" @ room temperature
Nominal Height +/- .0625" @ room temperature

All special dimension height and widths as specified.

Length Specifications:

All unfinished boards:
Length +2"/-0" @ room temperature

All finished boards:
Length +.125"/-0" @ room temperature

Standard Colors:

- Black
- Brown
- Cedar
- Teak
- Khaki
- Blue
- Light Blue
- Fir Green
- Bright Green
- Grey
- Slate Grey
- Red
- Orange
- Custom Colors Available by Request

Common Industries Served:

- Retail and Personal Shelving
- Outdoor Furniture
- Agricultural
- Marine including Docks and Watercraft
- Parks and Playgrounds
- Landscaping
- Custom Signage
- Industrial Cribbing

Mechanical Properties:

<i>Material Property</i>	<i>ASTM Standard</i>	<i>Imperial Units</i>	<i>Metric Units</i>
Flexural Strength	D6109	4,966 psi	349 kg/cm ²
Flexural Modulus (Secant @ 1% Stain)	D6109	272,176 psi	19,135 kg/cm ²
Compression Strength	D6108	3,723 psi	261 kg/cm ²
Compression Modulus	D6108	179,759 psi	12,638 kg/cm ²
Moisture Absorption	D570	0.019% by Weight	0.019% by Weight
Thermal Expansion	D6341	0.000019 in/in/°F	
Screw Withdrawal	D6117	622 lbs	282 kg
Coefficient of Friction - Static Dry	D2394	0.58	
Coefficient of Friction - Dynamic Dry	D2394	0.50	
Coefficient of Friction - Static Wet	C1025	0.34	

****All data in the table above represent averages and not minimums. Safety factors must be added in when designing for each specific application.**

Storage:

Product should be shipped and kept flat to prevent warpage until installed into final configuration.