

PlasTEAK[®] Inc.

Recycled plastic lumber & products

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Plastic Lumber Specifications

Mechanical Properties @ 70° F	Test Method	Average Value
Density	ASTM D6111	.0237 – .0249 lbs/cu in
Modules of elasticity (@ 1% strain)	ASTM D6109	111,700 – 113,950 psi
Ultimate flexural stress (@ 3% strain)	ASTM D6109	2,250 – 2,325 psi
Allowable flexural stress	ASTM D6109	1200 psi
Endwise compressive stress (@ 3% strain)	ASTM D6108	3,300 – 3,650 psi
Screw withdrawal, #10, 1 1/2"	ASTM D61177	325 lbs
Water absorption, 11 weeks	ASTM D570	.01% 24 hrs
Coefficient of thermal expansion	ASTM D6341	0.00007 in/in/ °F

Flammability

The materials utilized in recycled plastic lumber are flammable but not combustible. HDPE is difficult to ignite and the flame will normally self extinguish.

Accepted extinguishing method: DRY CHEMICAL, CO2, WATER FOG/SPRAY, and FOAM. Emissions from combustion are carbon dioxide, carbon monoxide, H2O, nitrogen and organic vapors.

- Flash Point: 330° C (700° F) (ASTM E138)
- BTU's/lb: 19,900
- Melt Temperature: 104° - 108° C (220 - 230° F)