

Typical Properties

Part Number	PLB50XL
Material Type	Expanded Polypropylene (EPP)
Product Format	Panel with indexing overlapping edges
Part Size, nominal net coverage	23.59 sq ft (2.19 sq m)
Product Thickness, nominal	2.0 in (50.8 mm)
Panel Length, nominal	73.5 in (1.87 m)
Panel Width, nominal	49.0 in (1.24 m)
Panel Weight, nominal	5.87 lbs (2.67 kg)
Intended Use	Synthetic turf playground surface systems with fall heights up to 9 ft*

Property	Value	Test Method
Tensile Strength ¹	73 psi	ASTM D3575-20, Suffix T
Tensile Elongation ¹	22.9%	ASTM D3575-20, Suffix T
Compression Strength ¹ @ 25% strain	19 psi	ASTM D3575-20, Suffix D
Water Permeability ¹	2112 in/hr	EN 12616
Coefficient of Linear Thermal Expansion ¹	0.080 mm/m per °C	TSM5725G (modified)
Thermal Conductivity ¹	0.297 BTU-in / hr-ft ² -°F	ASTM C518
Thermal Resistance (R-Value) ¹	6.356 ft ² -°F-hr / BTU	
Water Absorption (24 h immersion, vol%) ²	~1%	DIN 53428
Flammability ²	Pass (< 100 mm/min)	FMVSS 302
Resistance to Chemicals ²	≤ 2	JSP Method based on ASTM F925
Microbiological Analysis ² bacteria resistance fungi resistance	no growth no growth	ASTM G22 ASTM G21
Environmental Standards Cradle to Cradle Certified [®] Heavy Metals ² VOCs ² SVOCs ²	Certified Compliant with EPA human health standards, surface water and groundwater quality	Cradle to Cradle Certified [®] Prod. Standard EPA 6010B, 7470A, 7471A EPA 8260B EPA 8270C
California Title 22	Compliant	CA Code of Regulations, Title 22, Division 4.5, Chapter 11
California Proposition 65	Certified (no listed mat'ls)	California Proposition 65

DATA ARE TYPICAL PROPERTIES ONLY. THIS DOCUMENT DOES NOT CREATE ANY WARRANTY, EXPRESS OR IMPLIED.

*Critical fall height (CFH) / Critical Height (CH) depends on the entire installed surface system (base, pad, turf, and infill). The complete system must be independently tested in accordance with ASTM F1292 to ensure the system meets any applicable performance requirements. A given system may achieve a higher or lower CFH/CH than the value shown here.

¹ Test reports available upon request. Patented and Patents Pending.

² Data for EPP material of same or similar density.

³ Note that EN 12616 results for pad alone are not indicative of overall surface drainage performance.