



Landlok 450 Turf Reinforcement Mat (TRM)

LANDLOK 450 turf reinforcement mat (TRM) features X3 technology that consists of a dense web of crimped, interlocking, multi-lobed polypropylene fibers positioned between two biaxially oriented nets and mechanically bound together by parallel stitching with polypropylene thread. The TRM is designed to accelerate seedling emergence, exhibit high resiliency, and possess strength and elongation properties to limit stretching in a saturated condition. Every component of LANDLOK 450 is stabilized against chemical and ultraviolet degradation which are normally found in a natural soil environment. Furthermore, the TRM contains no biodegradable components.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical			
Tensile Strength ²	ASTM D 6818	6.2 x 5.1 kN/m	425 x 350 lbs/ft
Elongation ²		50%	
Resiliency ²	ASTM D 6524	90%	
Flexibility ²	ASTM D 6575	30,000 mg/cm	0.026 in/lb
<input type="checkbox"/> Endurance			
UV Resistance @ 1,000 hrs ²	ASTM D 4355	80%	
<input type="checkbox"/> Performance			
Velocity (Vegetated) ^{2,3}	Large Scale	5.5 m/sec	18 ft/sec
Shear Stress (Vegetated) ^{2,3}		479 Pa	10 lbs/ft ²
Manning's N (Unvegetated) ^{2,4}	Calculated	0.025	
Seedling Emergence ²	ASTM D 7322	409%	
<input type="checkbox"/> Physical			
Mass Per Unit Area ²	ASTM D 6566	339 g/m ²	10.0 oz/yd ²
Thickness ²	ASTM D 6525	12.7 mm	0.50 in
Light Penetration (% Passing) ²	ASTM D 6567	20%	
Color	Visual	Green or Tan	
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	2.45 m x 42.7 m 104.61 m ²	8 ft x 140 ft 124.4 yd ²
		4.88 m x 42.7 m 208.37 m ²	16 ft x 140 ft 248.88 yd ²
		4.88 m x 106.3 m 518.74 m ²	16 ft x 348.75 620 yd ²

1. The property values listed above are effective 12/01/2023 and are subject to change without notice.
2. Values represent testing at time of manufacture and are shown as typical values.
3. Maximum permissible velocity and shear stress has been obtained through vegetated testing programs featuring specific soil types, vegetation classes, flow conditions, and failure criteria.
4. Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.

Carthage Mills assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Carthage Mills disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.