LANDLOK

LANDLOK® 1051 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 nonwoven portion of this product has a mass per unit area (ASTM D5261) of 3 oz/yd² and a grab tensile strength (ASTM D4632) of 80 lbs. 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 1051 is stabilized against chemical and ultraviolet degradation which are normally found in a natural soil environment. Furthermore, the TRM contains no biodegradable components.

LANDLOK 1051 conforms to the property values listed below¹ and is manufactured at a Propex facility having achieved ISO 9001:2000 certification. Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute - Laboratory Accreditation Program (GAI-LAP).

	MARV ²		
PROPERTY	TEST METHOD	ENGLISH	METRIC
ORIGIN OF MATERIALS			
% U.S. Manufactured Inputs		100%	100%
% U.S. Manufactured		100%	100%
PHYSICAL			
Mass/Unit Area	ASTM D-6566	14.0 oz/yd ²	475 g/m ²
Thickness	ASTM D-6525	0.40 in	10.1 mm
Light Penetration (% Passing)	ASTM D-6567	5%	5%
Color	Visual	Tan	
MECHANICAL			
Tensile Strength (Grab)	ASTM D-6818	300 x 225 lb/ft	4.3 x 3.2 kN/m
Elongation	ASTM D-6818	85% (max)	85% (max)
Resiliency	ASTM D-6524	80%	80%
Flexibility	ASTM D-6575	0.022 in-lb (avg)	25000 mg-cm (avg)
ENDURANCE			
UV Resistance % Retained 1000 hrs	ASTM D-4355	80%	80%
PERFORMANCE	11		Γ
Velocity ³ (Vegetated)	Large Scale	18 ft/s	5.5 m/s
Shear Stress ³ (Vegetated)	Large Scale	10 lb/ft ²	479 Pa
Manning's "n" ⁴ (Unvegetated)	Calculated	0.026	0.026
Seedling Emergence ⁴	ECTC Draft Method #4	220%	220%
ROLL SIZES		6.5 ft x 138.5 ft	2.0 m x 42.2 m

ROLL SIZES

NOTES:

The property values listed are effective 04/2011 and are subject to change without notice. 1

2. MARV indicates minimum average roll value calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.

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. These conditions may not be relevant to every project nor are they replicated by other manufacturers. Please contact Propex for further information.



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4. Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.



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