LANDLOK® TRM

Product Data

LANDLOK® 435

LANDLOK® 435 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 with mesh openings of approximately 1/2 in by 1/2 in (13 mm by 13 mm) and mechanically bound together every 2 in (51 mm) 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® 435 is stabilized against chemical and ultraviolet degradation which are normally found in a natural soil environment. Furthermore, the TRM contains no biodegradable components.

LANDLOK® 435 conforms to the property values listed below[1] and is manufactured at a Propex facility having achieved ISO 9001:2008 certification. Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

PROPERTY	TEST METHOD	ENGLISH	METRIC
ORIGIN OF MATERIALS			
% U.S. Manufactured		100%	100%
PHYSICAL			
Mass/Unit Area [2]	ASTM D-6566	8.0 oz/yd²	271 g/m²
Thickness [2]	ASTM D-6525	0.35 in	8.9 mm
Light Penetration (% Passing) [2]	ASTM D-6567	40%	40%
Color	Visual	Green	
MECHANICAL			
Tensile Strength [2]	ASTM D-6818	225 x 175 lbs/ft	3.3 x 2.6 kN/m
Elongation [2]	ASTM D-6818	50%	50%
Resiliency [2]	ASTM D-6524	80%	80%
Flexibility [2]	ASTM D-6575	0.015 in-lb	17,308 mg-cm
ENDURANCE			
UV Resistance % Retained at 1,000 hrs [2]	ASTM D-4355	80%	80%
PERFORMANCE			
Velocity (Vegetated) [2, 3]	Large Scale	12 ft/sec	3.7 m/sec
Shear Stress (Vegetated) [2, 3]	Large Scale	8 lb/ft²	383 Pa
Manning's n (Unvegetated) [2, 4]	Calculated	0.025	0.025
Seedling Emergence [2]	ASTM D-7322	273%	273%
ROLL SIZES		8 ft x 125 ft 16 ft x 125 ft	2.45 m x 38.1 m 4.88 m x 38.1 m

NOTES:

1. The property values listed above are effective 12/20/2018 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. These conditions may not be relevant to every project nor are they replicated by other manufacturers. Please contact Propex for further information.
4. Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.

Distributed By:

L & M Supply Co., Inc.
P. O. Box 640 - Willacoochee, GA 31650
912-534-6071 Direct
800-948-7870 Toll Free
www.landmsupplyco.com

Propex GEOSOLUTIONS

Propex Operating Company, LLC · 4019 Industry Drive · Chattanooga, TN 37416

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