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 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 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 9001:2000 certification. Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). This product NTPEP approved for AASHTO standards.

PROPERTY	TEST METHOD	MARV[2] ENGLISH	METRIC
ORIGIN OF MATERIALS			
% U.S. Manufactured Inputs		100%	100%
% U.S. Manufactured		100%	100%
PHYSICAL			
Mass/Unit Area	ASTM D-6566	8.0 oz/yd^2	271 g/m^2
Thickness	ASTM D-6525	0.35 in	8.9 mm
Light Penetration (% Passing)	ASTM D-6567	40%	40%
Color	Visual	Green	
MECHANICAL			
Tensile Strength (Grab)	ASTM D-6818	225 x 175 lb/ft	3.3 x 2.6 kN/m
Elongation	ASTM D-6818	50% (max)	50% (max)
Resiliency	ASTM D-6524	80%	80%
Flexibility	ASTM D-6575	0.015 in-lb (avg)	16,000 mg-cm (avg)
ENDURANCE			
UV Resistance % Retained 1000 hrs	ASTM D-4355	80%	80%
PERFORMANCE			
Velocity[3] (Vegetated)	Large Scale	12 ft/s	3.7 m/s
Shear Stress[3] (Vegetated)	Large Scale	8 lb/ft^2	383 Pa
Manning's "n"[4] (Unvegetated)	Calculated	0.025	0.025
Seedling Emergence[4]	ECTC Draft Method #4	273%	273%

ROLL SIZES	6.5 ft x 138.5 ft	2.0 m x 42.2 m

NOTES:

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