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Landlok® 300

Landlok 300® turf reinforcement mat (TRM) is a three-dimensional, woven polypropylene geotextile which will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. Landlok 300® is available in green and is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of polypropylene monofilament yarns featuring X3® technology woven into a uniform configuration of resilient pyramid-like projections. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.

Landlok 300® conforms to the property values listed below[1] and is manufactured at a facility having achieved ISO 9001:2000 certification. Internal Manufacturing Quality Control (MQC) tests are performed that have been accredited by the Geosynthetic Accreditation Institute - Laboratory Accreditation Program (GAI-LAP).

		MARV[2]
PROPERTY	TEST METHOD	METRIC
PHYSICAL		
Mass/Unit Area	ASTM D-6566	254.3 g/m^2
Thickness	ASTM D-6525	6.35 mm
Light Penetration (% Passing)	ASTM D-6567	50%
Colour	Visual	Green, Tan
MECHANICAL		
Tensile Strength (Grab)	ASTM D-6818	26.3 x 29.2 kN/m
Elongation	ASTM D-6818	50% (max)
Resiliency	ASTM D-6524	70%
Flexibility	ASTM D-6575	225000 mg-cm (avg)
ENDURANCE		
UV Resistance @ 3000 hours	AMST D-4355	90%
PERFORMANCE		
Velocity[3] (vegetated)	Large Scale	6.1 m/sec
Shear Stress[3] (vegetated)	Large Scale	575 N/m^2
Manning's "n"[4] (unvegetated)	Calculated	0.030
Seedling Emergence[3]	ECTC Draft Method #4	296%
ROLL SIZES		2.6m x 32.3m

NOTES

1. The property values listed are effective 04/2011 and are subject to change without notice.
2. MARV indicated the minimum average roll value calculated as the typical minus two standards deviations. Statistically, it yields a 97,9% 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 Geosynthetics for further information.
4. Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 150 - 300mm.