

LANDLOK® TRM 1051

LANDLOK® TRM 1051 is manufactured at an SI Geosolutions' facility having achieved ISO-9002 certification for its systematic approach to quality. **LANDLOK® TRM 1051** turf reinforcement mat (TRM) *features X3™ technology* that consists of a dense web of crimped, interlocking, multi-lobed polypropylene fibers positioned between a biaxially oriented net and a needlepunched nonwoven geotextile, 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 the TRM is stabilized against chemical and ultraviolet degradation which are normally found in a natural soil environment. Furthermore, the TRM contains no biodegradable components. **LANDLOK® TRM 1051** conforms to the property values listed below¹ that have been derived from manufacturing quality control and independent testing performed by SI Geosolutions' GAI-LAP accredited and third-party laboratories:

MARV²

PROPERTY	TEST METHOD	ENGLISH	METRIC
Physical			
Mass/Unit Area	ASTM D6566	14.0 oz/yd ²	475 g/m ²
Thickness	ASTM D6525	0.40 in	10.1 mm
Light Penetration (% Passing)	ASTM D6567	5%	5%
Color	Visual	Tan	
Mechanical			
Tensile Strength	ASTM D6818	300 x 225 lb/ft	4.3 x 3.2 kN/m
Tensile Elongation	ASTM D6818	85% (max)	85% (max)
Resiliency	ASTM D6524	80%	80%
Flexibility	ASTM D6575	0.022 in-lb (avg)	25,000 mg-cm (avg)
Durability			
UV Resistance @ 1000 hrs	ASTM D4355	80%	80%
Performance			
Shear Stress	Large Scale	8 lb/ft ²	383 Pa
Manning's "n"	Calculated	0.026	0.026
Seedling Emergence	ECTC Draft Method #4	—	—
Roll Size		6.5 ft x 138.5 ft	2.0 m x 42.2 m

NOTES

- The property values listed are effective 3/01/2004 and are subject to change without notice.
- 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.
- Maximum permissible 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 SI Geosolutions for further information.
- Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.
- Calculated as average plant height obtained with tall fescue grass seed in sand 14 days after seeding.

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