

## PRODUCT DATA SHEET

### TURF REINFORCEMENT MAT (TRM) - GS 50

GreenSolutions™ GS 50 TRM is a machine stitched Heavy-Duty Polypropylene Turf Reinforcement Mat utilized for protection of shorelines, channels, and extreme slopes. GS 50 is comprised of an evenly distributed matrix of U.V. stabilized polypropylene/synthetic fibers that are stitch-bonded between two layers of biaxially oriented Heavy-Duty polypropylene netting. The fiber and netting components are stitched on 1.5" centers using a polypropylene thread. All components used to manufacture GS 50 are non-biodegradable and are resistant to U.V. and chemical degradation.

GS 50 is designed to achieve a functional longevity greater than 3 years, in order for to provide for sufficient vegetation establishment. GS 50 offers both long-term and immediate protection to shorelines, channels, and extreme slopes. The open area of GS 50 allows for soil filling and further seed germination, which in time creates a matrix of soil, roots, and vegetation that will protect your project for years to come.

PROPERTY	TEST METHOD	ENGLISH	METRIC
Roll Size		8 ft X 112.5 ft	2.4 m x 34.29 m
<b>Physical</b>			
Mass / Unit Area	ASTM D 6566	10.0 oz / yd <sup>2</sup>	340 g / m <sup>2</sup>
Thickness	ASTM D 6525	0.40 in	10.1 mm
Light Penetration (% Passing)	ASTM D 6567	20%	20%
Color	Visual	Green	
<b>Mechanical</b>			
Grab Tensile Strength	ASTM D 6818	400 x 300 lb / ft	5.8 x 4.3 kN / m
Grab Elongation	ASTM D 6818	50% (max)	50% (max)
Resiliency	ASTM D 6524	90%	90%
Flexibility	ASTM D 6575	0.026 in / lb (avg)	30,000 mg / cm (avg)
<b>Endurance</b>			
UV Resistance @ 1000 hours	ASTM D 4355	80%	80%
<b>Performance</b>			
Velocity <sup>3</sup> (Vegetated)	Large Scale	17 ft / s	5.2 m / s
Shear Stress <sup>3</sup> (Vegetated)	Large Scale	10 lb / ft <sup>2</sup>	479 Pa
Manning's "n" <sup>4</sup> (Unvegetated)	Calculated	0.025	0.025
Seedling Emergence	ECTC Draft Method #4	409%	409%

- All values are minimum average roll values unless otherwise stated.
- Longevity may vary depending on the area in which the product is installed.

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