



**ROLLMAX™**  
ROLLED EROSION CONTROL

## Specification Sheet – TMax™ High-Performance Turf Reinforcement Mat

### DESCRIPTION

The TMax™ high-performance turf reinforcement mat (HP-TRM) shall be a machine-produced mat of 100% UV-stabilized, high denier polypropylene monofilament yarns woven into permanent, high-strength, three-dimensional turf reinforcement matting. Available in either a green/black or a tan/black coloring, the mat shall be composed of polypropylene yarns woven into a uniform configuration of resilient, pyramid-like projections. The mat provides sufficient thickness, optimum open area, and three-dimensionality for effective erosion control and vegetation reinforcement against high flow induced shear forces. The mat has high tensile strength for excellent damage resistance and for increasing the bearing capacity of vegetated soils subject to heavy loads from maintenance equipment and other vehicular traffic. The material has very high interlock and reinforcement capacities with both soil and root systems, and is designed for erosion control applications on steep slopes and vegetated waterways.

### Material Content

<b>Woven Structure</b>	100% UV stable	
	Polypropylene Monofilament yarns	Black/Green or Black/Tan

### Standard Roll Sizes

<b>Width</b>	11.5 ft (3.5 m)	11.5 ft (3.5 m)
<b>Length</b>	78 ft (23.8 m)	156 ft (47.5 m)
<b>Weight ± 10%</b>	72 lbs (32.7 kg)	143.5 lbs (65.1 kg)
<b>Area</b>	100 yd <sup>2</sup> (83.6 m <sup>2</sup> )	200 yd <sup>2</sup> (167 m <sup>2</sup> )

Index Property	Test Method	Typical
<b>Thickness</b>	ASTM D6525	0.40 in (10.2 mm)
<b>Resiliency</b>	ASTM D6524	79%
<b>Mass/Unit Area</b>	ASTM D6566	11.67 oz/yd <sup>2</sup> (395 g/m <sup>2</sup> )
<b>Tensile Strength – MD</b>	ASTM D6818	5000 lbs/ft (73 kN/m)
<b>Elongation – MD</b>	ASTM D6818	29%
<b>Tensile Strength – TD</b>	ASTM D6818	3,800 lbs/ft (55.5 kN/m)
<b>Elongation – TD</b>	ASTM D6818	30%
<b>Light Penetration</b>	ASTM D6567	78.5% coverage
<b>UV Stability</b>	ASTM D4355	>80% @ 3000 hr

### Design Permissible Shear Stress\*

<b>Vegetated Shear</b>	15 psf (718 Pa)
<b>Vegetated Velocity</b>	25 fps (7.6 m/s)

\*Design values extrapolated from large scale ASTM D6460 testing



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