



## PRODUCT DATA SHEET RECYCLEX® TRM

### DESCRIPTION

Recyclex TRM, permanent non-degradable Turf Reinforcement Mat (TRM), consists of 100% post-consumer recycled polyester (green or brown bottles) with 80% five-inch fibers or greater fiber length. It is of consistent thickness with fibers evenly distributed throughout the entire area of the TRM. The top of each TRM is covered with extra heavy duty polypropylene net and the bottom of each is covered with heavy duty polypropylene net. Fibers are tightly crimped and curled to allow fiber interlock, and to retain 95% memory of the original shape after loading by hydraulic events. Fibers have a specific gravity greater than 1.0; therefore, the blanket will not float during hydraulic events. Recyclex TRM meets Federal Government Executive Order initiatives for use of products made from, or incorporating, recycled materials. Recyclex TRM shall be manufactured in the U.S.A. and the fibers shall be made from 100% recycled post-consumer goods.

Recyclex TRM has a design soil loss ratio (event-based RUSLE C factor) of .022 and is typically suitable for slopes up to .5H:1V. Vegetated Recyclex TRM is rated for channel flows up to 17.0+ ft/s (5.2+ m/s) and 10.0+ lb/ft<sup>2</sup> (480+ Pa) shear stress.

### PHYSICAL PROPERTIES

Recyclex TRM measurements at time of manufacturing:

<b>Width</b>		8.0 ft (2.4 m)	16 ft (4.9 m)
<b>Length</b>		90.0 ft (27.4 m)	90.0 ft (27.4 m)
<b>Area</b>		80.0 yd <sup>2</sup> (66.9 m <sup>2</sup> )	160.0 yd <sup>2</sup> (133.8 m <sup>2</sup> )
<b>Weight</b>		50.0 lb (22.7 kg)	100.0 lb (45.4 kg)
<b>Fiber Length (80% min.)</b>		≥5.0 in (≥12.7 cm)	≥5.0 in (≥12.7 cm)
<b>Mass per Unit Area (± 10%)</b>		0.625 lb/yd <sup>2</sup> (0.34 kg/m <sup>2</sup> )	0.625 lb/yd <sup>2</sup> (0.34 kg/m <sup>2</sup> )
<b>Net Openings</b>	Polypropylene Top	0.75 in x 1.0 in (19.1 mm x 25.4 mm)	0.75 in x 1.0 in (19.1 mm x 25.4 mm)
	Polypropylene Bottom	0.75 in x 0.75 in (19.1 mm x 19.1 mm)	0.75 in x 0.75 in (19.1 mm x 19.1 mm)

### TYPICAL INDEX VALUES

<u>Index Property</u>	<u>Test Method</u>	<u>Value</u>
Thickness	ASTM D 6525	0.371 in (9.4 mm)
Light Penetration	ECTC Procedure	55%
Resiliency	ASTM D 6524	85%
Mass per Unit Area	ASTM D 6566	0.63 lb/yd <sup>2</sup> (0.342 kg/m <sup>2</sup> )
MD-Tensile Strength Max.	ASTM D 6818	387.6 lb/ft (5.66 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	340.8 lb/ft (4.97 kN/m)
MD-Elongation	ASTM D 6818	21.2%
TD-Elongation	ASTM D 6818	20.3%
Swell	ECTC Procedure	26%
Water Absorption	ASTM D 1117/ECTC	20%
Specific Gravity	ASTM D 792	1.28
UV Stability	ASTM D 4355 (1,000 hr)	90% minimum
Porosity	Calculated	97.6%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 6.17 @ 2 in/hr <sup>a,b</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 5.90 @ 4 in/hr <sup>a,b</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 5.63 @ 6 in/hr <sup>a,b</sup>
Bench-Scale Shear	ASTM D 7207	2.84 lb/ft <sup>2</sup> @ 0.5 in soil loss <sup>b</sup>
Germination Improvement	ASTM D 7322	525.6%

<sup>a</sup> SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. <sup>b</sup> Bench-scale index values should not be used for design purposes.

