



PRODUCT DATA SHEET
TRINET® RECYCLEX®

DESCRIPTION

TriNet Recyclex, a three dimensional permanent non-degradable Turf Reinforcement Mat (TRM), consists of 100% post-consumer recycled polyester (green 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, middle, and bottom of each TRM is stitched together with ultra heavy duty UV stabilized polypropylene nets. 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. TriNet Recyclex TRM meets Federal Government Executive Order initiatives for use of products made from, or incorporating, recycled materials. TriNet Recyclex TRM shall be manufactured in the U.S.A. and the fibers shall be made from 100% recycled post-consumer goods.

TriNet Recyclex TRM has a design soil loss ratio (event-based RUSLE C factor) of .015 and is typically suitable for slopes up to .5H:1V. TriNet Recyclex TRM is rated for channel flows up to 25.0 ft/s (7.62 m/s) and 14 lb/ft² (670 Pa) shear stress.

PHYSICAL PROPERTIES

TriNet Recyclex TRM measurements at time of manufacturing:

| Width | | 8.0 ft (2.4 m) | 16 ft (4.9 m) |
|--------------------------------|---|--|--|
| Length | | 67.5 ft (20.6 m) | 67.5 ft (20.6 m) |
| Area | | 60.0 yd ² (50.2 m ²) | 120 yd ² (100.34 m ²) |
| Weight | | 68.9 lb (31.25 kg) | 137.8 lb (62.5 kg) |
| Fiber Length (80% min.) | | ≥ 5.0 in (≥ 12.7 cm) | ≥ 5.0 in (≥ 12.7 cm) |
| Recyclex Matrix (± 10%) | | 0.500 lb/yd ² (0.271 kg/m ²) | 0.500 lb/yd ² (0.271 kg/m ²) |
| Product Weight (± 10%) | | 1.148 lb/yd ² (0.623 kg/m ²) | 1.148 lb/yd ² (0.623 kg/m ²) |
| Net Openings | Top - Ultra Heavy Duty Polypropylene (UV-Stabilized) | 0.45 in x 0.58 in (11.43 mm x 14.73 mm) | 0.45 in x 0.58 in (11.43 mm x 14.73 mm) |
| | Middle - Ultra Heavy Duty Polypropylene (UV-Stabilized) | 0.45 in x 0.58 in (11.43 mm x 14.73 mm) | 0.45 in x 0.58 in (11.43 mm x 14.73 mm) |
| | Bottom - Ultra Heavy Duty Polypropylene (UV-Stabilized) | 0.45 in x 0.58 in (11.43 mm x 14.73 mm) | 0.45 in x 0.58 in (11.43 mm x 14.73 mm) |

TYPICAL INDEX VALUES

| <u>Index Property</u> | <u>Test Method</u> | <u>Value</u> |
|------------------------------|---------------------------|--|
| Thickness | ASTM D 6525 | 0.529 in (13.44 mm) |
| Light Penetration | ASTM D 6567 | 26.7% |
| Resiliency | ASTM D 6524 | 83% |
| Mass per Unit Area | ASTM D 6566 | 1.204 lb/yd ² (0.653 kg/m ²) |
| MD-Tensile Strength Max. | ASTM D 6818 | 1000.0 lb/ft (14.59 kN/m) |
| TD-Tensile Strength Max. | ASTM D 6818 | 900.0 lb/ft (13.13 kN/m) |
| MD-Elongation | ASTM D 6818 | 20.0% |
| TD-Elongation | ASTM D 6818 | 19.5% |
| UV Stability | ASTM D 4355 (1,000 hr) | 90% minimum |
| Porosity | Calculated | 96.63% |
| Stiffness | ASTM D6575 | 2.62 oz-in |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 45.66 @ 2 in/hr ^{a,b} |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 16.45 @ 4 in/hr ^{a,b} |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 12.12 @ 6 in/hr ^{a,b} |
| Bench-Scale Shear | ASTM D 7207 | 4.3 lb/ft ² @ 0.5 in soil loss ^b |
| Germination Improvement | ASTM D 7322 | 311% |

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

