



PRODUCT DATA SHEET
TRINET® COCONUT

DESCRIPTION

TriNet Coconut is a three dimensional biocomposite turf reinforcement mat (TRM) that consists of a coconut fiber matrix. The fibers are evenly distributed throughout the entire area of the TRM. The top, middle, and bottom nets of each TRM are stitched together forming a permanent three dimensional TRM. TriNet Coconut shall be manufactured in the U.S.A.

TriNet Coconut has a design soil loss ratio (event-based RUSLE C factor) of .031 and is typically suitable for slopes up to .5H:1V. TriNet Coconut is rated for channel flows up to 20.0 ft/s (6.1 m/s) and 12 lb/ft² (575 Pa) shear stress.

PHYSICAL PROPERTIES

TriNet Coconut measurements at time of manufacturing:

| | | | |
|-------------------------------|---|--|--|
| Width | | 8.0 ft (2.4 m) | 16.0 ft (4.9 m) |
| Length | | 90.0 ft (27.4 m) | 90.0 ft (27.4 m) |
| Area | | 80.0 yd ² (66.9 m ²) | 160.0 yd ² (133.8 m ²) |
| Weight^a | | 66.6 lb (30.2 kg) | 133.3 lb (60.46 kg) |
| Coconut 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%) | | 0.833 lb/yd ² (0.452 kg/m ²) | 0.833 lb/yd ² (0.452 kg/m ²) |
| Net Openings | Top - Super Heavy Duty Polypropylene (UV-Stabilized) | 0.5 in x 0.5 in (12.7 mm x 12.7 mm) | 0.5 in x 0.5 in (12.7 mm x 12.7 mm) |
| | Middle - Ultra Heavy Duty Polypropylene (UV-Stabilized) | 0.454 in x 0.588 in (11.54 mm x 14.94 mm) | 0.454 in x 0.588 in (11.54 mm x 14.94 mm) |
| | Bottom - Super Heavy Duty Polypropylene (UV-Stabilized) | 0.5 in x 0.5 in (12.7 mm x 12.7 mm) | 0.5 in x 0.5 in (12.7 mm x 12.7 mm) |

TYPICAL INDEX VALUES

| Index Property | Test Method | Value |
|--------------------------|------------------------|---|
| Thickness | ASTM D 6525 | 0.264 in (6.71 mm) |
| Light Penetration | ASTM D 6567 | 20.3% |
| Resiliency | ASTM D 1777/ECTC | 89% |
| Mass per Unit Area | ASTM D 6475 | 0.761 lb/yd ² (0.413 kg/m ²) |
| MD-Tensile Strength Max. | ASTM D 6818 | 750.0 lb/ft (10.95 kN/m) |
| TD-Tensile Strength Max. | ASTM D 6818 | 675.0 lb/ft (9.85 kN/m) |
| MD-Elongation | ASTM D 6818 | 19.0% |
| TD-Elongation | ASTM D 6818 | 16.5% |
| Swell | ECTC Procedure | 18% |
| Water Absorption | ASTM D 1117/ECTC | 244.3% |
| UV Stability | ASTM D 4355 (1,000 hr) | 90% minimum |
| Porosity | ECTC Procedure | 95.58% |
| Stiffness | ASTM D6575 | 1.53 oz-in |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 9.00 @ 2 in/hr ^{b,c} |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 13.26 @ 4 in/hr ^{b,c} |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 16.54 @ 6 in/hr ^{b,c} |
| Bench-Scale Shear | ASTM D 7207 | 4.53 lb/ft ² @ 0.5 in soil loss ^c |
| Germination Improvement | ASTM D 7322 | 411% |

^a Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of Coconut fibers is 20%.

