

Proud Participant in NTPEP and Proud Member of:



PRODUCT DATA SHEET TRINET[®] STRAW/COCONUT

DESCRIPTION

TriNet Straw/Coconut is a three dimensional biocomposite Turf Reinforcement Mat (TRM) that consists of a blend of 70% straw and 30% coconut fibers. The straw fibers used in the product are the finest available agricultural straw with 75% four-inch fibers or greater fiber length. The blended 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 Straw/Coconut shall be manufactured in the U.S.A.

TriNet Straw/Coconut has a design soil loss ratio (event-based RUSLE C factor) of .026 and is typically suitable for slopes up to .5H:1V. TriNet Straw/Coconut is rated for channel flows up to 15.0 ft/s (4.57 m/s) and 10.0 lb/ft² (480 Pa) shear stress.

PHYSICAL PROPERTIES

TriNet Straw/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		64.48 lb (29.248 kg)	128.96 lb (58.495 kg)
Straw/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%)		0.806 lb/yd ² (0.437 kg/m ²)	0.806 lb/yd ² (0.437 kg/m ²)
Net Openings	Top - Heavy Duty Polypropylene (UV-Stabilized)	0.5 in x 0.51 in (12.7 mm x 13.0 mm)	0.5 in x 0.51 in (12.7 mm x 13.0 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 - Heavy Duty Polypropylene (UV-Stabilized)	0.5 in x 0.51 in (12.7 mm x 13.0 mm)	0.5 in x 0.51 in (12.7 mm x 13.0 mm)

TYPICAL INDEX VALUES

Test Method	Value
ASTM D 6525	0.344 in (8.74 mm)
ASTM D 6567	8.5%
ASTM D 1777/ECTC	83%
ASTM D 6475	0.779 lb/yd ² (0.423 kg/m ²)
ASTM D 6818	600.0 lb/ft (8.76 kN/m)
ASTM D 6818	450.0 lb/ft (6.57 kN/m)
ASTM D 6818	18.0%
ASTM D 6818	15.0%
ECTC Procedure	31%
ASTM D 1117/ECTC	438.6%
ASTM D 4355 (1,000 hr)	90% minimum
ECTC Procedure	96.95%
ASTM D6575	1.04 oz-in
ASTM D 7101	$SLR = 14.14 @ 2 in/hr_{ha}^{b,c}$
ASTM D 7101	SLR = 14.47 (a) 4 in/hr ^{0,c}
ASTM D 7101	$SLR = 17.05 \ alpha 6 \ in/hr^{b,c}$
ASTM D 7207	3.99 lb/ft2 (a) $\overline{0.5}$ in soil loss ^c
ASTM D 7322	313%
	ASTM D 6525 ASTM D 6567 ASTM D 1777/ECTC ASTM D 6475 ASTM D 6818 ASTM D 6818 ASTM D 6818 ASTM D 6818 ECTC Procedure ASTM D 4355 (1,000 hr) ECTC Procedure ASTM D 6575 ASTM D 575 ASTM D 7101 ASTM D 7101 ASTM D 7207

^a Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content Straw and Coconut fibers are 15% and 20%, respectively.

