



## ETPP-10 CLASS 5B PERMANENT SOIL REINFORCEMENT MAT

**Description:**

ETPP-10 is a permanent turf reinforcement mat. The poly-propylene matrix is mechanically bonded together (stitched) on two inch centers between two layers of heavy-duty UV-stabilized netting. Intended applications are for the stabilization of slopes and channels. The longevity of ETPP-10 is designed for applications needing greater than 3 years of reinforcement but results may vary dependant on climatic conditions.

ETPP-10 Specifications			
Roll Width		7.5'	15'
Roll Length:		120	120
Coverage Area		100syds	200syds
Stitching		2" Centers	
Yarn Type	High Denier/UV Stabilized Black		
Weight (lbs)		64	120
Matrix	100% Synthetic Crimped Poly Propylene		
Fiber Density		10oz/syd	

Netting Properties	
Top Net	Heavy Duty UV Stabilized Black Netting
	3/4" X 3/4" Mesh Size (Nominal)
	2.8+/-0.3PMSF Weight
	MD=25+/-6.0lb/4 strand/3" TD=25+/-6.0lb/4 strand/3"
Bottom Net	Heavy Duty UV Stabilized Black Netting
	3/4" X 3/4" Mesh Size (Nominal)
	2.8+/-0.3PMSF Weight
	MD=25+/-6.0lb/4 strand/3" TD=25+/-6.0lb/4 strand/3"

Test Method Description		
Description	Test Method	Result
Tensile MD lb/in	ASTM 6818	21.3
Tensile TD lb/in	ASTM 6818	14.2
Ground Cover / Light Penetration	ASTM D 6567	77.10%
ECTC METHOD 2 Determination of Unvegetated RECP Ability to Protect Soil From Rain Splash and Associated Runoff Under Bench Scale Conditions	50mm (2in)/hr for 30 min	Soil Loss Ratio = 8.70
	100mm (4in)/hr for 30 min	Soil Loss Ratio =8.83
	150 mm (6in)/hr for 30 min	Soil Loss Ratio =8.96
ECTC Method 3 Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically Induced Shear Stresses Under Bench Scale Conditions	Shear: 2.13 psf for 30 min	Soil Loss = 193.3 g
	Shear: 2.73 psf for 30 min	Soil Loss = 525 g
	Shear: 3.35 psf for 30 min	Soil Loss = 926.7 g
	Soil Loss Curve Intercept=	2.73psf @ 1/2in soil loss
ECTC Method 4 Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth	Top Soil; Fescue (Kentucky 31);	% Improvement
	21 day incubation; 27 ± 2 deg &	478%
	approximately 45 ±5% RH	(increased biomass)

