



EROSION CONTROL
TECHNOLOGY COUNCIL
ECTC - EST 1992
DIRECTING MEMBER



ETPP-10 Erosion Control Blanket

ETTP-10 Turf Reinforcement Mat

A dense matrix of aggressively crimped, interlocking polypropylene fibers that are distributed evenly between two bi-axially oriented nets. This product meets all FHWA FP-03 Type 5.C requirements.

Part Numbers	ETPP-10-100	ETPP-10-200
Blanket Size	8 ft x 112.5 ft	16 ft x 112.5 ft
Rolls per Pallet	16	16
Rolls per Truck Load	234	192
Netting	Double Bi-axially Oriented Net – Black UV Stabilized	
Opening Size	0.5 in x 0.5 in	
Stitching Thread	Black UV Stabilized	
Stitching Frequency	2 in	
Fill	100% Synthetic	
Packaging	Each Roll is Individually Stretched Wrapped with a Label	

INDEX TESTING	TEST METHOD	UNIT	ENGLISH
Mass per Unit Area	ASTM D 6475	oz / sq yd	11.5
Thickness	ASTM D 6525	in	0.474
Tensile Strength	ASTM D 6818	lb/ft	424 / 298
Elongation	ASTM D 6818	%	26% (max)
Ground Cover / Light Penetration	ASTM D 6567	%	77.6 / 22.4
UV Resistance @ 500 Hours	ASTM D 4355	%	95
Resiliency	ASTM D 6524	%	94

BENCH-SCALE TESTING	TEST METHOD	Parameter	ENGLISH
Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth	ASTM D 7322	Topsoil; Fescue (Kentucky 31); 21-day incubation; 27±2° & approximately 45±5% RH	% of Control = 474% (increased biomass)

LARGE-SCALE TESTING	TEST METHOD	UNIT	ENGLISH
Slope Erosion	ASTM D 6459	C Factor	0.006
Velocity (Vegetated)	ASTM D 6460	ft/s	24
Shear Stress (Vegetated)	ASTM D 6460	lb/ft ²	13.00
Manning's (Unvegetated)	ASTM D 6460	n	.03

Notes:

1. Soil Loss Ratio = Soil Loss Bare Soil / Soil Loss with RECP = 1 / C-Factor (Note: soil loss is based on regression analysis).
2. Permissible Velocity and Shear Stress have been obtained through large scale test programs featuring specific soil types, vegetation classes, flow conditions, anchor methods, and failure criteria. These conditions may not be relevant to every project nor can they be replicated by other manufacturers. Please contact your Erosion Tech rep for more information.
3. Design Performance Criteria for Vegetated Velocity and Shear Stress are estimated values given the typical industry results for RECP's manufactured to FHWA Type 5.C standards and with similar physical properties. The Designing Engineer is responsible for determining the suitability of this product on projects.

