

# TE-P42 TRM

## EROSION CONTROL BLANKET



TE-P42 is a turf reinforcement mat made of 100% polypropylene fiber (green or tan) designed for critical slope and channel applications requiring permanent erosion control and turf reinforcement. The matting is sewn together on 1.5 inch (38.1 mm) centers. TE-P42 meets all requirements established in the FHWA FP-03 as a Type 5 A, B and C turf reinforcement matting for use on slopes with gradients up to 0.5:1 (h:v), channels, and shorelines. TE-P42 has been tested by the National Transportation Product Evaluation Program (NTPEP). TE-P42 comes packaged in clear shrink-wrap with a blue band and includes installation instructions.

### Product Nomenclature & Properties

- P** = 100% polypropylene fiber matrix (tan or green in colour)
- 4** = polypropylene fiber matrix applied at a rate of 0.75 lbs/yd<sup>2</sup> (400 g/m<sup>2</sup>)
- 2** = top permanent UV stabilized black net with a mesh size of 0.53 x 0.5 in (1.34 x 1.27 cm)  
= bottom permanent UV stabilized black net with a mesh size of 0.626 x 0.626 in (1.59 x 1.59 cm)  
= permanent UV stabilized black thread

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Mass Per Unit Area	ASTM D6475	oz/yd <sup>2</sup>	12.7
UV Stability at 500 hours	ASTM D4355	%	96
Tensile Strength	ASTM D6818	lbs/in @ %	31.4 @ 27.6 MD 17.7 @ 33.4 TD
Thickness	ASTM D6525	in	0.446
Light Penetration / Ground Cover	ASTM D6567	% / %	20 / 80
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101		Soil Loss Ratio* = 6.29 Soil Loss Ratio* = 6.05 Soil Loss Ratio* = 5.81
Unvegetated Bench-Scale Shear Stress (not to be used as a design value)	ASTM D7207	lbs/ft <sup>2</sup> @ ½ in. soil loss	3.07
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	% Improvement (increased biomass)	508
TYPICAL ROLL DIMENSIONS			
Roll Dimensions		ft (m)	8 (2.44) x 84.3 (25.7) 16 (4.88) x 84.3 (25.7)
Roll Area		yd <sup>2</sup> (m <sup>2</sup> )	75 (62.7) 150 (125.4)
Roll Weight ± 10%		lbs (kg)	61 (28) 122 (56)

NOTES:

\*Soil Loss Ratio = Soil Loss Bare Soil / Soil Loss with RECP = 1 / C-Factor (Note: Soil loss is based on regression analysis)

### Design Values

- "C" factor = 0.001
- Unvegetated Maximum Permissible Shear Stress = 3.30 lbs/ft<sup>2</sup> (158.4 Pa)
- Vegetated Maximum Permissible Shear Stream = 14.0 lbs/ft<sup>2</sup> (665 Pa)
- Maximum Flow Velocity Unvegetated = 12 ft/s (3.8 m/s)
- Maximum Flow Velocity Vegetated = 21 ft/s (6.65 m/s)
- Unvegetated Manning's "n" = 0.03 (The hydraulic roughness coefficient will vary for vegetated conditions based on vegetation stand height and density)

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### TITAN ENVIRONMENTAL CONTAINMENT

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