



## Specification Sheet

# P42

The P42 matting from ErosionControlBlanket.com is manufactured from 100% polypropylene fiber stitched between a black UV stabilized polypropylene top net with a mesh size of 1.34 x 1.27 cm (0.53 x 0.5 in) and a black UV stabilized polypropylene bottom net with a mesh size of 1.59 x 1.59 cm (0.626 x 0.626 in). The “P” and “4” represent polypropylene fiber applied at a minimum of 400 g/m<sup>2</sup> (0.75 lbs/yd<sup>2</sup>) and the “2” represents that the mat is netted on the top and bottom sides. The P42 is a permanent turf reinforcement mat. The mat is sewn together on 38.1 mm (1.5 in) centers, with UV stabilized polypropylene black thread. Each roll of P42 is packaged in clear shrink-wrap with a blue band and includes installation instructions.

### Index Test Results From Bench Scale Testing (TRI Environmental Labs or NTPEP)

Test Method – Description	Parameters	Test Result
ASTM D6475 – Mass per Unit Area	Index Test	10.56 oz/sq. yd.
ASTM D4355 – UV Stability	Index Test	96% at 500 hours
ASTM D6818 – Tensile Strength Machine Direction (MD) Transverse/Cross Direction (TD)	Index Test Index Test	28.9 lb/in @ 20.0% 21.8 lb/in @ 20.9%
ASTM D6525 – Thickness	Index Test	0.34 in
ASTM D6567 – Light Penetration	Index Test	20.0%
ASTM D792 Specific Gravity	Index Test	0.908 g/cm <sup>3</sup>
ECTC Method 2 – Determination of Unvegetated RECP Ability to Protect Soil from Rain Splash and Associated Runoff Under Bench-Scale Conditions	50 mm (2 in) / hr for 30 min 100 mm (4 in) / hr for 30 min 150 mm (6 in) / hr for 30 min	Soil Loss Ratio* = 6.29 Soil Loss Ratio* = 6.05 Soil Loss Ratio* = 5.81
ECTC Method 3 – Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale Conditions	Regression (power curve)	3.07 psf @ ½ in soil loss
ECTC Draft Method 4 – Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth	Top soil; Fescue (Kentucky 31); 21 day incubation; 27± 2° & approximately 45±5% RH	% Improvement = 508% %(increased biomass)
*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 = 156 Pa (3.00 lbs/ft<sup>2</sup>)
- Vegetated Maximum Permissible Shear Stress = 384 Pa (8.0 lbs/ft<sup>2</sup>)
- P42 meets all requirements established in the FHWA FP-03 as Type 5A and 5B turf reinforcement mattings for use on slopes with gradients of 1:1 and 0.5:1(h:v)
- Unvegetated Manning’s “n” = 0.03 (The hydraulic roughness coefficient will vary for vegetated conditions based on vegetation stand height and density)
- P42 has been tested by the National Transportation Product Evaluation Program (NTPEP)

### Standard Roll Details

Width	2.44m (8ft)	4.88m (16ft)
Standard Length	25.7m (84.3ft)	25.7m (84.3ft)
Area	62.7m <sup>2</sup> (75yd <sup>2</sup> )	125.4m <sup>2</sup> (150yd <sup>2</sup> )
Weight ±10%	28kg (61lb)	56kg (122lb)

### “Big Daddy” Roll Details

Width	2.44m (8ft)	4.88m (16ft)
Standard Length	102.8m (337.5ft)	102.8m (337.5ft)
Area	250.8m <sup>2</sup> (300yd <sup>2</sup> )	500m <sup>2</sup> (600yd <sup>2</sup> )
Weight ±10%	112kg (244 lb)	224kg (488 lb)

More information available upon request.