



**Material and Performance Specification Sheet**  
**ECP-3 Polypropylene Turf Reinforcement Mat**

**Description:** The ECP-3 is made with uniformly distributed 100% green polypropylene fiber and three ultra-heavy weight polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are placed wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation.

The ECP-3 is a permanent turf reinforcement mat and is suitable for slopes 1:1 and high flow channels. The ECP-3 meets Type 5.A, 5.B, and 5.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

<b>Materials:</b>	<b>Netting – Top, Middle and Bottom</b> Heavyweight 24# PMSF UV Stabilized Polypropylene	<b>Matrix</b> 100% Polypropylene Fiber 0.75 lbs/sq yd	<b>Thread</b> UV Stabilized 1.50" stitch spacing
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<b>Roll Sizes:</b>	<b>Standards</b>
Width:	7.5 ft (2.3 m)
Length:	120.0 ft (36.6 m)
Weight $\pm 10\%$ :	137.5 lbs (62.8 kg)
Area:	100 yd <sup>2</sup> (83.6 m <sup>2</sup> )
#/Pallet:	9

**Index Value Properties\*:**

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	18.5 oz/yd <sup>2</sup>
Thickness	ASTM D6525	.40 in
Tensile Strength-MD	ASTM D6818	1100 lb/ft
Elongation-MD	ASTM D6818	22 %
Tensile Strength-TD	ASTM D6818	900 lb/ft
Elongation-TD	ASTM D6818	18 %
Light Penetration	ASTM D6567	15 %
Density	ASTM D7912	.913 %

\* May differ depending upon raw material variations

**Bench-Scale Testing\* (NTPEP):**

Test Method	Parameters	Results
ECTC Method 2 Rainfall	50mm (2in) / hr-30 min	SLR**=
	100mm (4in) / hr-30 min	SLR**=
	150mm (6in) / hr-30 min	SLR**=
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	N/A
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	N/A

\*Bench scale tests should not be used for design purposes.  
\*\*Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor (soil loss is based on regression analysis).

**Unvegetated Design Values:**

Property	Test Method	Value
Maximum Permissible Sheer Stress	Modified ASTM D6460	5.00 psf
Maximum Flow Velocity	Modified ASTM D6460	15 ft/sec

\*Large-Scale Results obtained by 3<sup>rd</sup> Party GAI Accredited Independent Laboratory

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