



Wholesale Distribution

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CONSTRUCTION FABRICS, LINERS, & ENVIRONMENTAL PRODUCTS ECP-3™ Polypropylene Turf Reinforcement Mat

Description:

The ECP-3™ is made with uniformly distributed 100% green polypropylene fiber and three heavyweight polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are 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 1:1 slopes 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 713.18.

Matrix:	1		2			
Green or Tan Polypropylene Fiber						
Netting:	Type			Net Color		
Top: Heavyweight 24# PMSF UV Stabilized Polypropylene				Black		
Middle: Heavyweight 24# PMSF UV Stabilized Polypropylene						
Bottom: Heavyweight 24# PMSF UV Stabilized Polypropylene						
Net Opening:	Top		Middle	Bottom		
0.4" x 0.5"		0.4" x 0.5"		0.4" x 0.5"		
Thread:	Type		Color			
UV Stabilized Thread		Black				
Roll Sizes:	Standard		"A" Size		Mega	
Width:	7.5 ft	2.3 m	3.75 ft	1.1 m	15 ft	4.6 m
Length:	120 ft	36.6 m	240 ft	73.2 m	120 ft	36.6 m
Weight ±10%:	125 lbs	56.7 kg	125 lbs	56.7 kg	250 lbs	113.4 kg
Area:	100 yd ²	83.6 m ²	100 yd ²	83.6 m ²	200 yd ²	167.2 m ²
#/Pallet:	4		4		6	

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6566	19.90 oz/yd ² 674.7 g/m ²
Thickness	ASTM D6525	0.41 in 10.41 mm
Tensile Strength-MD	ASTM D6818	1232 lb/ft 17.98 kN/m
Elongation-MD	ASTM D6818	29 %
Tensile Strength-TD	ASTM D6818	1270 lb/ft 18.53 kN/m
Elongation-TD	ASTM D6818	19.0 %
Light Penetration	ASTM D6567	15 %
Density / Specific Gravity	ASTM D792	0.913 g/cm ³
Water Absorption	ASTM D1117	0 %
Resiliency	ASTM D6524	93 %
UV Resistance	ASTM D4355	100 % 1000 hours

*May differ depending upon raw material variations

Slope Performance Design Values*:

Property	Test Method		Value
C-Factors	ASTM D6459		0.00
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1
< 50 ft (15 m)	0.000	0.001	0.022
50 ft – 100 ft	0.005	0.009	0.029
>100 ft (30 m)	0.016	0.025	0.036

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

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

Test Method	Parameters	Results
	50mm (2in) / hr-30 min	SLR**=7.68
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=10.42
	150mm (6in) / hr-30 min	SLR**=14.15

ECTC Method 3 Shear Resistance Shear at .50 in soil loss 3.51 lb/ft²

ECTC Method 4 Germination Top soil; Fescue; 21 day incubation 426 %

*Bench scale tests should not be used for design purposes.

**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

***The preceding test data excerpts were reproduced with the permission of AASHTO, however, this does not constitute endorsement or approval of the product, material or device by AASHTO

Channel Performance Design Values*:

Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	3.80 lbs/ft ² 181.94 Pa
Unvegetated Velocity	ASTM D 6460	12.1 ft/s 3.69 m/s
Vegetated Shear Stress	ASTM D 6460	14.0 lbs/ft ² 670.32 Pa
Vegetated Velocity	ASTM D 6460	25.0 ft/s 7.62 m/s
Manning's N (Value Represents a Range)		0.028

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory



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