

AASHTO NTPEP Rolled Erosion Control Product (RECP) Test Report

Manufacturer:	US Erosion Control Products	Plant Name:	US Erosion Control Products
Corporate Address:	1800 Springhead Church Rd.	Plant Address:	5227 Springhead Church Road
City/State/Zip:	Willacoochee, GA 31650	City/State/Zip:	Willacoochee, GA 31650
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NTPEP / Log Number: ECP-2010-01-008

Product Identification: US-2P10

Description: Double-netted synthetic permanent turf reinforcement mat with polymer fiber fill

Netting: Synthetic UV stabilized top and bottom nets (each with 0.75 square openings)

Matrix/Fill: 100% Polymer

Stitching: UV stabilized synthetic @ 1.5 in. transverse stitch spacing



Test Results

Test Method - Description	Parameters	Test Result
ASTM D 6566 - Mass per Unit Area	Index Test	9.39 oz/sq.yd.
ASTM D 6818 – Ultimate Tensile Strength / Strain - MD - TD	Index Test	29.0 lb/in @ % 37.2
		23.6 lb/in @ % 22.5
ASTM D 6525 – Thickness	Index Test	225 mils
ASTM D 6567 - Ground Cover / Light Penetration	Index Test	77.9 % / % 22.1
ASTM D 792 – Specific Gravity - Net Only	Index Test	0.917 g/cm3
ASTM D 7101 - 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.	Soil Loss Ratio* = 6.36
	100 mm (4 in.) / hr for 30 min.	Soil Loss Ratio* = 6.94
	150 mm (6 in.) / hr for 30 min.	Soil Loss Ratio* = 7.58
ASTM D 7207 - Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale Conditions	Shear: 2.11 psf for 30 min.	Soil Loss = 320.0 g
	Shear: 2.79 psf for 30 min.	Soil Loss = 476.7 g
	Shear: 3.44 psf for 30 min.	Soil Loss = 523.3 g
	Soil loss curve intercept =	2.90 psf @ ½-in soil loss
ASTM D 7322 - 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	% of Control
		= 414%
		(increased biomass)

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