



## AASHTO NTPEP Rolled Erosion Control Product (RECP) Test Report

Manufacturer:	US Erosion Control Products	Plant Name:	US Erosion Control Products
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City/State/Zip:	Willacoochee, GA 31650	City/State/Zip:	Willacoochee, GA 31650
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NTPEP / Log Number: ECP-2010-01-004

Product Identification: US-1S

Description: Single net temporary straw erosion control blanket

Netting: Photodegradable synthetic top net with 0.5 inch square openings

Matrix/Fill: 100% Wheat Straw

Stitching: Photodegradable synthetic stitching @ 1.5 in. transverse stitch spacing



### Test Results

Test Method - Description	Parameters	Test Result
ASTM D 6475 - Mass per Unit Area	Index Test	10.26 oz/sq.yd.
ASTM D 6818 – Ultimate Tensile Strength / Strain - TD	Index Test	12.9 lb/in @ % 27.1
	Index Test	8.0 lb/in @ % 33.1
ASTM D 6525 – Thickness	Index Test	414 mils
ASTM D 6567 - Ground Cover / Light Penetration	Index Test	94.7 % / % 5.3
ASTM D 1117 & ECTC-TASC 00197 - Water Absorption	Index Test	296 %
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* = 15.72
	100 mm (4 in.) / hr for 30 min.	Soil Loss Ratio* = 14.01
	150 mm (6 in.) / hr for 30 min.	Soil Loss Ratio* = 12.48
ASTM D 7207 - Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale Conditions	Shear: 0.69 psf for 30 min.	Soil Loss = 210.0 g
	Shear: 1.26 psf for 30 min.	Soil Loss = 226.7 g
	Shear: 1.82 psf for 30 min.	Soil Loss = 488.3 g
	Soil loss curve intercept =	1.87 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
		= 429%
		(increased biomass)

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