

# Mirafi<sup>®</sup> TM13C

Mirafi<sup>®</sup> TM13C is a 3-dimensional, lofty synthetic, erosion control mat, which provides bare soil retention, vegetation nurturing and turf reinforcement. Mirafi<sup>®</sup> TM13C is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

Performance Properties <sup>1</sup>	Test Method	Unit	Value
Velocity (fully vegetated)	Large Scale	ft/sec (m/sec)	>25 (7.6)
Shear Stress (fully vegetated)	Large Scale	lbs/ft <sup>2</sup> (Pa)	16.9 (809)
Manning's Coefficient	Calculated	"n"	0.033

Mechanical Properties	Test Method	Unit	MARV	
			MD	CD
Tensile Strength @ Ultimate	ASTM D6818	lbs/ft (kN/m)	3096 (45.2)	3096 (45.2)
			<b>Minimum Test Value</b>	
UV Resistance (at 3000 hours)	ASTM D4355	% strength retained	95	
UV Resistance (at 6000 hours)	ASTM D4355	% strength retained	90	
UV Resistance (at 10000 hours)	ASTM D4355	% strength retained	83	
			<b>Typical Roll Value</b>	
Thickness	ASTM D6525	mils (mm)	475 (10.2)	
Resiliency	ASTM D6524	%	70	
Resiliency <sup>2</sup>	ASTM D6524	mils (mm)	330 (8.4)	
			<b>Maximum Roll Value</b>	
			<b>MD</b>	<b>CD</b>
Tensile Elongation	ASTM D6818	%	50	50
Light Penetration	ASTM D6567	%	40	
			<b>Minimum Roll Value</b>	
Physical Properties	Test Method	Unit	MARV	
Mass Per Unit Area	ASTM D6566	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	9.0 (288)	
Color: Green or Tan		Roll Sizes: 12' x 75' (3.66m x 22.9m)		

<sup>1</sup> Based upon full-scale independent testing performed at TRI Environmental.  
<sup>2</sup> Typical Resiliency Thickness reported in mils, *Tf* per Section 9.5, ASTM D6524.

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## Mirafi<sup>®</sup> TM14S

Mirafi<sup>®</sup> TM14S is a 3-dimensional, lofty synthetic, erosion control mat, which provides bare soil retention, vegetation nurturing and turf reinforcement. Mirafi<sup>®</sup> TM14S is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Performance Properties	Test Method	Unit	Value
Overtopping Discharge (Q) <sup>1</sup>	Large Scale	cfs/ft <sup>2</sup> (ls/m <sup>2</sup> )	4.0 (1219)
Manning's Coefficient <sup>2</sup>	Calculated	"n"	0.033

Mechanical Properties	Test Method	Unit	MARV	
			MD	CD
Tensile Strength @ Ultimate	ASTM D6818	lbs/ft (kN/m)	3000 (43.8)	2400 (35.0)
			<b>Minimum Test Value</b>	
UV Resistance (at 3000 hours)	ASTM D4355	% strength retained	95	
UV Resistance (at 6000 hours)	ASTM D4355	% strength retained	90	
UV Resistance (at 10000 hours)	ASTM D4355	% strength retained	80	
			<b>Typical Roll Value</b>	
Resiliency <sup>3</sup>	ASTM D6524	mils (mm)	330 (8.4)	
Thickness	ASTM D6525	mils (mm)	475 (12.1)	
			<b>Maximum Roll Value</b>	
			<b>MD</b>	<b>CD</b>
Tensile Elongation	ASTM D6818	%	50	50
Light Penetration	ASTM D6567	%	40	
			<b>Minimum Roll Value</b>	
Physical Properties	Test Method	Unit	MARV	
Mass Per Unit Area	ASTM D6566	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	8.5 (288)	
Color: Green		Roll Sizes: 12' x 75' (3.66m x 22.9m)		

<sup>1</sup>Based on 3:1 Bed Slope.

<sup>2</sup> Higher Manning's Coefficient will result in reduced flow velocity.

<sup>3</sup> Typical Resiliency Thickness reported in mils, *Tf* per Section 9.5, ASTM D6524.

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