

## Engineer's Point By Point Comparative Data Sheet

Typical Physical Index Properties	Test Method	Units	Min. Allowed	Greenfix	Comp 1	Specification Notes
Manufacturer's Product Trade Name	-	-	-	<b>DNE</b>		
Thickness	ASTM D 6525	(Inches)		.51		None Critical (Fiber Core Only)
Mass per Unit Area / Unit Weight	ASTM D 6475	(lb/yd <sup>2</sup> )		.65		Critical Factor - Aerial Density
Tensile Strength (Machine Direction)	ASTM D 6818	(lbs/ft)		162		None Critical
Tensile Strength (Transverse Direction)	ASTM D 6818	(lbs/ft)		82		None Critical
Elongation Avg. % @ Peak (MD x TD)	ASTM D 6818	Average (%)		24 X 29		None Critical
Light Penetration (Ground Cover)	ECTC	(%) Reduction		76		None Critical
Resiliency (Fiber Core Only)	ASTM D1777	(%) Recovery		N/A		None Critical (Fiber Core Only)
Porosity	ECTC	(%) Porous Area		N/A		Not Related to Effectiveness
Swell - (If Applicable)	ECTC	(%) Change		N/A		Not Related to Effectiveness
Water Absorption - (If Applicable)	ASTM D1777	(%) Wt. Change		185		Not Related to Effectiveness
UV Stability - (If applicable)	ASTM D-4355	(%) Retained		N/A		None Critical
UV Reduced Strength - (If applicable)	ASTM D 5035	(lbs/ft)		N/A		None Critical
Thread Break Load	ASTM D 885M-95	(lbs/ft)		15		

Manufacturer's Index Property						
Color	-	No Value		Green		Not Related to Effectiveness
Functional Longevity	-	Months		12		Critical Factor
Standard Roll Area	-	(yd <sup>2</sup> )		85		
Min. Filament Diameter - (If applicable)	-	(Measured)		N/A		Not Related to Effectiveness

Performance Property						
Permissible Soil Loss - (Slopes Only)	ASTM D 6459 <sup>1</sup>	(lbs/Hr.)		N/A		Critical Factor
Germination Ratio - (Slopes Only)	Rainfall Sim. <sup>1</sup>	% Of Total Pos.		N/A		Site Specific Factor
"C" Factor / Soil Loss Ratio - (Slopes Only)	ASTM D 6459	Ratio		.012		Critical Factor
Allowable Shear Stress - (Channels Only)	Direct Shear	(lbs/ft <sup>2</sup> )		<b>N/A</b>		
Max. Allowable Velocity - (Channels Only)	Flow Velocity	(fps)		<b>N/A</b>		Critical Factor

Data compiled from manufactures published product information and independent laboratory test reports.

<sup>1</sup> Large Scale Controlled Environment Rainfall Simulator, Capable of 5.9 inches per hour intensity.

### Channel Analysis Comparison Table No.1

				Required Safety Factor [ 2.0 ]			Bare Soil [ Yes ]	
Greenfix America Materials Listing		Velocity (fps)		Shear Stress (lbs/ft <sup>2</sup> )			Pass	Computed Quantity
		Computed	Max Allowed	Safety Factor	Computed	Max Allowed	Safety Factor	Y/N
Left								
Bottom								
Right								
<b>NOT APPLICABLE</b>								
Comp 1 Materials Listing		Velocity (fps)		Shear Stress (lbs/ft <sup>2</sup> )			Pass	Computed Quantity
		Computed	Max Allowed	Safety Factor	Computed	Max Allowed	Safety Factor	Y/N
Left								
Bottom								
Right								

Authorized Official: \_\_\_\_\_

Date: \_\_\_\_\_