

**NON-WOVEN GEOTEXTILES  
FOR TRANSPORTATION APPLICATION**  
COMPARATIVE PRODUCT SPECIFICATION CHART



**N&S Rentals, Inc.**

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PROPERTY	TEST METHOD	UNIT	M.A.R.V. (Minimum Average Roll Value)									
			NS3	NS140		NS145		NS160		NS180		NS12
Grab Tensile	ASTM D 4632	lbs	90	90		120		160		205		300
		kN	0.401	0.401		0.533		0.711		0.911		1.334
Grab Elongation	ASTM D 4632	%	50	50		50		50		50		50
Trapezoid Tear Strength	ASTM D 4533	lbs	40	40		50		60		85		115
		kN	0.18	0.18		0.22		0.27		0.38		0.51
CBR Puncture Resistance	ASTM D 6241	lbs	265	265		340		410		535		850
		kN	1.18	1.18		1.51		1.82		2.37		3.78
Permittivity*	ASTM D 4491	sec <sup>-1</sup>	2	2		1.7		1.5		1.4		1.0
Water Flow*	ASTM D 4491	gpm/ft <sup>2</sup>	150	150		135		110		95		75
		l/min/m <sup>2</sup>	6095	6095		4885		4480		3657		3055
AOS*	ASTM D 4751	US Sieve	50	50		70		70		80		100
		mm	0.3	0.3		0.212		0.212		0.18		<b>0.15</b>
UV Resistance at 500 hrs	ASTM D 4355	%	70	70		70		70		70		70

**AASHTO CLASSIFICATION**

M288 Survivability Class	-	-		3		2		1		1	
M288 Application <sup>+</sup>	-	-		-		SP,D		SP,ST, D,E		SP,ST, D,E	

**MARYLAND QUALIFIED PRODUCTS FOR USE**

Application Class/type	-	-		-		SD-1,2		SD-1,2 PE-1,2,3 SE,E		-	
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**PACKAGING DETAILS**

Roll Dimension	(ft)	3'x360'	12.5/15 x 360		12.5 x 360/15 x 300				
	(m)	.92x109.80	3.81x 109.8 / 4.6 x 109.8		3.81 x 109.8 / 4.6 x 91.4				
Area per Roll	(yd <sup>2</sup> )	120	500/600		500				
	(m <sup>2</sup> )	101	418/505		418				
Estimated Roll Weight	(lbs)	31	130/155		152/180	195	250		375
	(kg)	14	59/70		69/82	89	114		170

+ SP=Separation, ST=Stabilization, E=Erosion Control, D=Drainage

*This information is provided for reference purposes only and is not intended as a warranty or guarantee. N&S Rentals, Inc. assumes no liability in connection with the use of this information.*

**WOVEN SLIT TAPE GEOTEXTILES**  
**MONOFILAMENT GEOTEXTILES**  
 COMPARATIVE SPECIFICATION CHART



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PROPERTY	TEST METHOD	UNIT	MARV (Minimum Average Roll Value)					
				NS200		NS300		NS700X
Grab Tensile	ASTM D 4632	lbs kN		200 .0.9		315 1.4		370 x250 1.65 x 1.11
Grab Elongation	ASTM D 4632	%		15		15		15
Trapezoid Tear Strength	ASTM D 4533	Lbs kN		75 .33		120 0.533		100 x 60 445 x 0.267
CBR Puncture Resistance	ASTM D 6241	lbs kN		700 3.12		1000 4.45		950 4.28
Water Flow*	ASTM D 4491	gpm/ft <sup>2</sup> l/min/m <sup>2</sup>		5 203		4 163		18 733
Permittivity*	ASTM D 4491	sec <sup>-1</sup>		0.05		.05		.28
AOS*	ASTM D 4751	US Sieve mm		40 0.433		40 0.425		70 0.212
UV Resistance at 500 hrs	ASTM D 4355	%		70/500		70/500		90/500
Maryland Qual. Use				SF		SF/ST		

\* At the time of manufacturing. Handling may change these properties. SF=Silt Fence, ST=Stabilization

**PACKAGING DETAILS**

Roll Dimension	(ft)		12.5 x 432 / 15 x 360 / 17.5 x 309		12 x 300
	(m)		3.81 x 132 / 4.57 x 110/ 5.33 x 94		3.66 x 91
Area per Roll	(yd <sup>2</sup> )		600	500	400
	(m <sup>2</sup> )		500	420	346
Estimated Roll Weight	(lbs)		180	205	
	(kg)		82	93	

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