

# Nilex Nonwoven Civil Geotextile Comparison

Minimum Average Roll Values (MARV)

Property	Test	Unit	Nilex 4504 (White)	Nilex 4510	Nilex 4512	Nilex 4516	Nilex 4535	Nilex 4545	Nilex 4546	Nilex 4547	Nilex 4551	Nilex 4552	Nilex 4553
<b>Mechanical</b>													
Grab Tensile Strength	ASTM D-4632	N (lb)	445 (100)	1112 (250)	1334 (300)	1690 (380)	356 (80)	400 (90)	534 (120)	445 (100)	712 (160)	801 (180)	912 (205)
Grab Elongation	ASTM D-4632	%	50	50	50	50	50	50	50	50	50	50	50
CBR Puncture*	ASTM D-6241	N (lb)	---	3114 (700)	3781 (850)	4804 (1080)	934 (210)	1157 (260)	1379 (310)	1334 (300)	1824 (410)	2113 (475)	2335 (525)
Trapezoidal Tear	ASTM D-4533	N (lb)	222 (50)	445 (100)	512 (115)	645 (145)	133 (30)	178 (40)	222 (50)	222 (50)	267 (60)	334 (75)	356 (80)
<b>Hydraulic</b>													
Apparent Opening Size	ASTM D-4751	mm (US Sieve)	0.212 (#70)	0.150 (#100)	0.150 (#100)	0.150 (#100)	0.300 (#50)	0.250 (#60)	0.212 (#70)	0.212 (#70)	0.212 (#70)	0.212 (#70)	0.180 (#80)
Permittivity	ASTM D-4491	sec <sup>-1</sup>	2	1.2	1.0	0.7	2.2	2.0	1.7	2.0	1.5	1.4	1.5
Water Flow Rate	ASTM D-4491	l/m/m <sup>2</sup> (gpm/ft <sup>2</sup> )	5689 (140)	3260 (80)	3056 (75)	2037 (50)	6112 (150)	6112 (150)	5704 (140)	5704 (140)	4482 (110)	4278 (105)	4482 (110)
<b>Endurance</b>													
UV Resistance	ASTM D-4355	% @ 500 hrs	70	70	70	70	70	70	70	70	70	70	70
<b>Packaging</b>													
Roll Size	Measured	m (ft)	5.40 x 100 (17.7 x 328)	4.57 x 91.5 (15 x 300)	4.57 x 91.5 (15 x 300)	4.57 x 91.5 (15 x 300)	3.81 x 109.8 (12.5 x 360) 4.57 x 109.8 (15 x 360)	3.81 x 109.8 (12.5 x 360) 4.57 x 109.8 (15 x 360)	3.81 x 109.8 (12.5 x 360) 4.57 x 109.8 (15 x 360)	3.81 x 109.8 (12.5 x 360) 4.57 x 109.8 (15 x 360)	3.81 x 109.8 (12.5 x 360) 4.57 x 91.5 (15 x 300)	3.81 x 109.8 (12.5 x 360) 4.57 x 91.5 (15 x 300)	3.81 x 109.8 (12.5 x 360) 4.57 x 91.5 (15 x 300)

\*Note: Mullen Burst ASTM D3786 and Puncture Strength ASTM D4833 are no longer recognized by ASTM Committee D35 as an acceptable geotextile test method. Puncture Strength ASTM 4833 has been replaced with the Static (CBR) Puncture ASTM D6241. For more information, refer to the ASTM website at [www.astm.org](http://www.astm.org)

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