

## PRODUCT SPECIFICATIONS

# Nilex Nonwoven 4510E

Nilex 4510E is a polypropylene, staple fiber, needle-punched nonwoven geotextile produced by Nilex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The fibers are needed to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

PROPERTY	TEST	UNIT	VALUE (MARV)
<b>Physical Properties</b>			
Mass/Unit Area	ASTM D-5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	339 (10)
Thickness	ASTM D-5199	mm (mils)	2.7 (105)
<b>Mechanical</b>			
Grab Tensile Strength	ASTM D-4632	N (lb)	1201 (270)
Elongation	ASTM D-4632	%	50
CBR Puncture*	ASTM D-6241	N (lb)	3225 (725)
Trapezoidal Tear	ASTM D-4533	N (lb)	467 (105)
<b>Hydraulic</b>			
Apparent Opening Size	ASTM D-4751	mm (US Sieve)	0.150 (#100)
Permittivity	ASTM D-4491	sec <sup>-1</sup>	1.2
Permeability	ASTM D-4491	cm/sec	0.30
Water Flow Rate	ASTM D-4491	l/m/m <sup>2</sup> (gpm/ft <sup>2</sup> )	3463 (85)
<b>Endurance</b>			
UV Resistance	ASTM D-4355	% retained at 500 hrs	70
<b>Packaging</b>			
Roll Size	Measured	m (ft)	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.

Disclaimer: The information provided by Nilex is believed to be correct and is generally based on information supplied by the manufacturers of the product offered. Any recommendations made by Nilex concerning uses or applications of our products are also believed to be reliable; however, as Nilex has no control over design execution, and field conditions of the project which incorporate the product. Nilex disclaims all warranties, expressed or implied, including, without limitation, the warranties of merchantability and/or fitness for a particular purpose.