

PRODUCT SPECIFICATIONS

Nilex Nonwoven 4512E

Nilex 4512E 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)
Physical Properties			
Mass/Unit Area	ASTM D-5261	g/m ² (oz/yd ²)	407 (12.0)
Thickness	ASTM D-5199	mm (mils)	2.9 (115)
Mechanical			
Grab Tensile Strength	ASTM D-4632	N (lb)	1423 (320)
Elongation	ASTM D-4632	%	50
CBR Puncture*	ASTM D-6241	N (lb)	4115 (925)
Trapezoidal Tear	ASTM D-4533	N (lb)	556 (125)
Hydraulic			
Apparent Opening Size	ASTM D-4751	mm (US Sieve)	0.150 (#100)
Permittivity	ASTM D-4491	sec ⁻¹	0.80
Permeability	ASTM D-4491	Cm/sec	0.29
Water Flow Rate	ASTM D-4491	l/m/m ² (gpm/ft ²)	2445 (60)
Endurance			
UV Resistance	ASTM D-4355	% @ 500 hrs	70
Packaging			
Roll Size	Measured	m (ft)	4.57 x 91.5 (15 x 300)

*Note: Mullen Burst ASTM D-3786 and Puncture Strength ASTM D-4833 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 D-6241.

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