

PRODUCT SPECIFICATIONS

Nilex Nonwoven Environmental Geotextile Comparison

Minimum Average Roll Values (MARV)

PROPERTY	TEST	UNIT	Nilex 4506E	Nilex 4508E	Nilex 4510E	Nilex 4512E	Nilex 4516E
Physical							
Mass/Unit Area	ASTM D-5261	g/m ² (oz/yd ²)	203 (6.0)	271 (8.0)	339 (10.0)	407 (12.0)	542 (16.0)
Thickness	ASTM D-5199	mm (mils)	2.0 (80)	2.3 (90)	2.7 (105)	2.9 (115)	4.2 (165)
Mechanical							
Grab Tensile Strength	ASTM D-4632	N (lb)	756 (170)	979 (220)	1201 (270)	1423 (320)	1735 (390)
Elongation	ASTM D-4632	%	50	50	50	50	50
CBR Puncture*	ASTM D-6241	N (lb)	1936 (435)	2559 (575)	3226 (725)	4115 (925)	5006 (1125)
Trapezoid Tear	ASTM D-4533	N (lb)	311 (70)	423 (95)	467 (105)	556 (125)	690 (155)
Hydraulic							
Apparent Opening Size	ASTM D-4751	mm (US Sieve)	0.212 (#70)	0.180 (#80)	0.150 (#100)	0.150 (#100)	0.150 (#100)
Permittivity	ASTM D-4491	sec ⁻¹	1.5	1.5	1.2	0.8	0.7
Permeability	ASTM D-4491	cm (sec)	0.38	0.38	0.30	0.29	0.27
Water Flow Rate	ASTM D-4491	l/m/m ² (gpm/ft ²)	4482 (110)	4482 (110)	3463 (85)	2445 (60)	2037 (50)
Endurance							
UV Resistance	ASTM D-4355	% @ 500 hrs	70	70	70	70	70
Packaging							
Roll Size	Measured	m (ft)	4.57 x 91.5 (15 x 300)	4.57 x 91.5 (15 x 300)	4.57 x 91.5 (15 x 300)	4.57 x 91.5 (15 x 300)	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

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