

PRODUCT SPECIFICATIONS

Nilex Nonwoven 4545

Nilex 4545 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)
Mechanical			
Grab Tensile Strength	ASTM D-4632	N (lb)	400 (90)
Elongation	ASTM D-4632	%	50
CBR Puncture*	ASTM D-6241	N (lb)	1157 (260)
Trapezoidal Tear	ASTM D-4533	N (lb)	178 (40)
Hydraulic			
Apparent Opening Size	ASTM D-4751	mm (US Sieve)	0.250 (#60)
Permittivity	ASTM D-4491	sec ⁻¹	2.0
Water Flow Rate	ASTM D-4491	l/m/m ² (gpm/ft ²)	6112 (150)
Endurance			
UV Resistance	ASTM D-4355	% retained at 500 hrs	70
Packaging			
Roll Size	Measured	m (ft)	3.81 x 109.8 (12.5 x 360) 4.57 x 109.8 (15 x 360)

Notes:

Values shown are in weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.

*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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