



Patriot Geosynthetics PATRIOT 4500N is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. PATRIOT 4500N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. PATRIOT 4500N meets AASHTO M288 Class 3 for Elongation > 50% .

PATRIOT 4500N meets Build America, Buy America Act, Pub. L. No. 117-58, div. G §§ 70901-52.

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs/ft (N)	120 (534)	120 (534)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	50 (223)	50 (223)
CBR Puncture Strength	ASTM D6241	lbs (N)	310 (1380)	

			MINIMUM ROLL VALUE
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	135 (5500)
Permittivity	ASTM D4491	sec <sup>-1</sup>	1.7

			MAXIMUM OPENING SIZE
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)

			MINIMUM TEST VALUE
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70

PHYSICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
Weight	ASTM D5261	oz/yd <sup>2</sup> (gm <sup>2</sup> )	4.0 (136)

PHYSICAL PROPERTIES	UNIT	ROLL SIZE	
Roll Dimensions (width x length)	ft (m)	12.5 X 360 (3.8 X 110)	15 X 360 (4.57 X 110)
Roll Area	yd <sup>2</sup> (m <sup>2</sup> )	500 (418)	600 (502)
Estimated Roll Weight	lbs (kgs)	151 (69)	177 (80)

Disclaimer: Patriot Geosynthetics assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Patriot Geosynthetics disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

