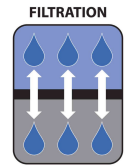




# US 180NW

## Nonwoven Geotextile



NTPEP APPROVED - GTX-2019-01-297. US 180NW is a nonwoven needlepunched geotextile made of 100% polypropylene staple filaments. US 180NW resists ultraviolet and biological deterioration, rotting, naturally encountered basics and acids. Polypropylene is stable within a pH range of 2 to 13. US 180NW meets the following M.A.R.V. values except where noted:



PROPERTY	TEST METHOD	ENGLISH	METRIC
Weight <span style="border: 1px solid black; border-radius: 10px; padding: 2px;">Typical</span>	<a href="#">ASTM D-5261</a>	7 oz/y <sup>2</sup>	237.3 g/m <sup>2</sup>
Grab Tensile Strength	<a href="#">ASTM D-4632</a>	180 lbs	801 N
Elongation @ Break	<a href="#">ASTM D-4632</a>	50 %	50 %
Mullen Burst <sup>(3)</sup>	<a href="#">ASTM D-3786</a>	330 psi	2,275 kPa
Pin Puncture <sup>(3)</sup>	<a href="#">ASTM D-4833</a>	105 lbs	467 N
CBR Puncture	<a href="#">ASTM D-6241</a>	475 lbs	2,114 N
Trapezoidal Tear	<a href="#">ASTM D-4533</a>	75 lbs	334 N
Apparent Opening Size <sup>(1,2)</sup>	<a href="#">ASTM D-4751</a>	70 US Sieve	0.21 mm
Permittivity <sup>(1)</sup>	<a href="#">ASTM D-4491</a>	1.4 Sec <sup>-1</sup>	1.4 Sec <sup>-1</sup>
Water Flow Rate <sup>(1)</sup>	<a href="#">ASTM D-4491</a>	105 g/min/f <sup>2</sup>	4,278 L/min/m <sup>2</sup>
UV Resistance @ 500 Hours	<a href="#">ASTM D-4355</a>	70 %	70 %

<sup>(1)</sup> At the time of manufacturing. Handling, storage, and shipping may change these properties.

<sup>(2)</sup> Maximum average roll value (MaxARV).

<sup>(3)</sup> Historical reference values. These properties are no longer recognized by ASTM or AASHTO for geosynthetics.

## US 180NW Shipping & Packaging Information

SIZE	DIAMETER	WIDTH	WEIGHT	AREA	ROLLS PER TRAILER
12.5' x 360'	16"	12.5'	240 lbs	500 y <sup>2</sup>	200
15' x 300'	16"	15'	240 lbs	500 y <sup>2</sup>	156

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