

### Environmental Grade

### Nonwoven Geotextile

- ❖ **Drainage**
- ❖ **Separation**
- ❖ **Erosion Control**
- ❖ **Reinforcement**
- ❖ **Stabilization**
- ❖ **Protection**

Nonwoven geotextiles are made from polypropylene fibers. These synthetic fibers are needled punched together to create an interlocking grid with impressive dimensional stability properties. Generally, geotextiles are identified by their mass per unit area instead of their thickness.

Environmental grade geotextiles have a more consistent thickness throughout, which can be crucial for certain environmental applications. They are best suited for applications prioritizing reinforcement, stabilization, and protection. They are comparable with the civil grade series, however, because of their consistency they have slightly better mechanical properties.

Minimum Average Roll Values			Product Series					
Property	Test Method	Unit	NT04-E	NT06-E	NT08-E	NT10-E	NT12-E	NT16-E
<b>Physical</b>								
Mass/Unit Area	ASTM D-5261	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	4 (136)	6 (203)	8 (271)	10 (339)	12 (407)	16 (544)
<b>Mechanical</b>								
Grab Tensile	ASTM D-4632	lbs (N)	120 (534)	170 (757)	220 (979)	270 (1200)	320 (1424)	390 (1736)
Elongation	ASTM D-4632	%	50	50	50	50	50	50
CBR Puncture	ASTM D-6241	lbs (KN)	335 (1.5)	435 (1.9)	600 (2.7)	725 (3.2)	925 (4.1)	1125 (5.0)
Trapezoidal Tear	ASTM D-4533	lbs (N)	50 (223)	65 (289)	95 (423)	105 (467)	125 (556)	150 (668)
UV Resistance	ASTM D-4533	% Retained @ 500hrs	70	70	70	70	70	70
<b>Hydraulic</b>								
Apparent Opening Size	ASTM D-4751	US Sieve (mm)	70 (0.21)	70 (0.21)	80 (0.18)	100 (0.15)	100 (0.15)	100 (0.15)
Permittivity	ASTM D-4491	sec <sup>-1</sup>	1.7	1.5	1.5	1.2	1.0	0.7
Permeability	ASTM D-4491	cm/sec	0.21	0.25	0.30	0.29	0.29	0.26
Water Flow Rate	ASTM D-4491	g/min/sf (l/min/m <sup>2</sup> )	135 (5500)	110 (4479)	95 (3895)	80 (3280)	60 (2445)	50 (2050)
<b>Dimensions</b>								
Typical Roll Size	Measured	ft (m)	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 (4.57 x 91.5)	15 x 300 (4.57 x 91.5)
Area	W x L	ft <sup>2</sup> (m <sup>2</sup> )	4500 (418)	4500 (418)	4500 (418)	4500 (418)	4500 (418)	4500 (418)

#### Notes:

- (1) All roll widths/lengths have a tolerance of ±1 %.
- (2) Custom roll lengths can be ordered. Transportation cost might be affected.
- (3) Penteco is a distributor for this product. Manufacturing partners are based out of Canada & USA.
- (4) Manufacturer's data sheet provided at time of bid/purchase includes adjusted widths/lengths.

**DISCLAIMER:** The data above represents the manufacturer's laboratory testing of their product. It is the user's responsibility to determine the suitability of the products. Penteco is a distributor for these products through its manufacturing partners. Penteco will provide the manufacturers data sheet at the time of sale. There may be very slight variation, but overall, the data represents standard industry specifications. Penteco and manufacturing partners assume no liability, nor can they provide any warranty, without having additional information regarding the use of the products. The same goes for any infringement on patents - no permission can be granted without further disclosure.

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