

ENVIRONMENTAL NONWOVEN GEOTEXTILE



Titan has provided the containment and erosion control industries with the highest quality geotextiles available. Our nonwoven needle-punched geotextiles are manufactured using polypropylene fibers, which are formed into a dimensionally stable network which allows the fibers to maintain their relative position. These products resist ultraviolet deterioration, rotting, biological degradation, and are inert to commonly encountered soil chemicals.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)							
			TE-E140 4oz	TE-E160 6oz	TE-E170 7oz	TE-E180 8oz	TE-E110 10oz	TE-E112 12oz	TE-E114 14oz	TE-E116 16oz
Weight	ASTM D 5261	oz/yd ² (g/m ²)	4.0 (135)	6.0 (204)	7.0 (237)	8.0 (272)	10.0 (339)	12.0 (407)	14.0 (475)	16.0 (544)
Tensile Strength (Grab)	ASTM D 4632	lbs (N)	105 (467)	160 (711)	200 (889)	220 (979)	270 (1201)	330 (1470)	390 (1730)	390 (1735)
Elongation	ASTM D 4632	%	50	50	50	50	50	50	50	50
Trapezoidal Tear	ASTM D 4533	lbs (N)	45 (200)	65 (290)	75 (330)	90 (400)	100 (444)	125 (556)	135 (600)	150 (667)
Thickness	ASTM D 5199	mils (mm)	70 (1.77)	80 (2.032)	90 (2.29)	90 (2.53)	105 (2.7)	120 (3.05)	135 (3.43)	165 (4.191)
CBR Puncture Resistance	ASTM D 6241	lbs (N)	305 (1360)	435 (1935)	540 (2400)	575 (2559)	725 (3225)	900 (4000)	1045 (4650)	1125 (5004)
U.V. Resistance	ASTM D 4355	%/hrs	70/500	70/500	70/500	70/500	70/500	70/500	70/500	70/500
Apparent Opening Size (AOS)	ASTM D 4751	U.S. Sieve (mm)	70 (0.212)	70 (0.212)	70 (0.212)	80 (0.18)	100 (0.150)	100 (0.150)	100 (0.150)	100 (0.150)
Permittivity*	ASTM D 4491	sec ⁻¹	2.00	1.6	1.40	1.26	0.94	0.90	0.64	0.50
Permeability*	ASTM D 4491	cm/sec	0.3	0.3	0.3	0.3	0.3	0.3	0.25	0.25
Water Flow*	ASTM D 4491	gpm/ft ² (l/min/m ²)	160 (6518)	110 (4482)	110 (4470)	90 (3675)	75 (3055)	70 (2544)	50 (2037)	45 (1833)
TYPICAL ROLL DIMENSIONS										
Roll Dimensions		ft	15 x 1350	15 x 300	15 x 780	15 x 300	15 x 300	15 x 480	15 x 390	15 x 300
Roll Area		yd ²	2250	500	1300	500	500	800	650	500
Estimated Roll Weight		lbs	620	187.5	620	250	312.5	620	620	500

NOTES: * At time of manufacturing. Handling, Storage, and shipping may change these properties.

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