



Nonwoven Civil Geotextile Cutsheet

PROPERTY	TEST METHOD	UNIT	310N	400N	600N	800N	1000N	1200N *	1600N *
Tensile Strength (Grab)	ASTM D-4632	lbs (N)	80 (355)	100 (445)	160 (711)	205 (912)	250 (1113)	305 (1356.7)	380 (1690)
Elongation	ASTM D-4632	%	50	50	50	50	50	50	50
CBR Puncture	ASTM D-6241	lbs (N)	175 (778)	300 (1334)	410 (1825)	525 (2336)	700 (3113)	825 (3670)	1025 (4561)
Trapezoidal Tear	ASTM D-4533	lbs (N)	25 (111)	45 (200)	60 (267)	80 (356)	100 (445)	115 (511)	145 (644)
UV Resistance (500 hrs)	ASTM D-4355	%	70	70	70	70	70	70	70
Apparent Opening Size (AOS)	ASTM D-4751	US Sieve (mm)	50 (0.3)	70 (0.212)	70 (0.212)	80 (0.18)	100 (0.150)	100 (0.150)	100 (0.150)
Permittivity	ASTM D-4491	sec ⁻¹	2.2	2.0	1.4	1.3	1.2	1.0	0.7
Water Flow Rate	ASTM D-4491	gpm/ft ² (lpm/m ²)	150 (6112)	140 (5704)	105 (4276)	90 (3667)	85 (3454)	75 (3055)	50 (2037)
Roll Dimensions		ft (m)	12.5 x 360 (3.81 x 109.8) 15 x 360 (4.6 x 109.8)	12.5 x 360 (3.81 x 109.8) 15 x 360 (4.6 x 109.8)	15 x 300 (4.6 x 91.5)	15 x 300 (4.6 x 91.5)	15 x 300 (4.6 x 91.5)	15 x 300 (4.6 x 91.5)	15 x 300 (4.6 x 91.5)
Roll Area		yd ² (m ²)	500 (418) 600 (502)	500 (418) 600 (502)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)



Nonwoven Enviromental Geotextile Cutsheet

PROPERTY	TEST METHOD	UNIT	600NE *	800NE *	1000NE *	1200NE *	1600NE *
Weight	ASTM D-5261	oz/yd ² (g/m ²)	6.0 (204)	8.0 (272)	10.0 (339)	12.0 (408)	16.0 (542)
Thickness	ASTM D-5199	mils (mm)	85 (2.16)	100 (2.5)	110 (2.79)	120 (3.05)	175 (4.45)
Tensile Strength (Grab)	ASTM D-4632	lbs (N)	160 (711)	225 (1001)	270 (1201)	330 (1468)	425 (1891)
Elongation	ASTM D-4632	%	50	50	50	50	50
CBR Puncture	ASTM D-6241	lbs (N)	450 (2002)	600 (2669)	725 (3225)	900 (4003)	1200 (5338)
Trapezoidal Tear	ASTM D-4533	lbs (N)	65 (289)	90 (400)	100 (444)	125 (556)	150 (667)
UV Resistance (500 Hrs)	ASTM D-4355		70	70	70	70	70
Apparent Opening Size (AOS)	ASTM D-4751	lbs (N)	70 (0.212)	80 (0.180)	100 (0.150)	100 (0.150)	100 (0.150)
Permittivity	ASTM D-4491	sec ⁻¹	1.63	1.26	0.94	0.90	0.57
Permeability	ASTM D-4491	cm/sec	0.3	0.3	0.3	0.3	0.25
Water Flow Rate	ASTM D-4491	gpm/ft ² (lpm/m ²)	125 (5080)	100 (4074)	75 (3055)	70 (2852)	45 (1833)
Roll Dimensions		ft (m)	15 x 900 (4.6 x 274)	15 x 690 (4.6 x 210.3)	15 x 570 (4.6 x 173)	15 x 480 (4.6 x 146.3)	15 x 360 (4.6 x 110)
Roll Area		yd ² (m ²)	1500 (1256)	1150 (963)	950 (796)	800 (670)	600 (502)

Note: * Special order non-woven

Minimum Average Roll Values (MARV)

Maximum average roll value ASTM D 4751- AOS

Mullen Burst ASTM D3786 and Puncture Strength ASTM D4833 are no longer recognized by ASTM Committee D35.

Puncture Strength ASTM 4833 has been replaced with the Static (CBR) Puncture ASTM D6241.

For more information, refer to the ASTM website at www.astm.org

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