

PROPERTY	TEST METHOD	UNIT	200W	250W	315W
Tensile Strength (Grab)	ASTM D-4632	lbs (N)	200 (890)	250 (1113)	315 (1402)
Elongation	ASTM D-4632	%	15	15	15
Trapezoidal Tear	ASTM D-6241	lbs (N)	75 (330)	90 (400)	113 (503)
CBR Puncture	ASTM D-4533	lbs (N)	700 (3113)	750 (3338)	900 (4005)
UV Resistance (500 hrs)	ASTM D-4355	%	70	70	70
Apparent Opening Size (AOS)	ASTM D-4751	US Sieve (mm)	40 (0.425)	40 (0.425)	40 (0.425)
Permittivity	ASTM D-4491	sec ⁻¹	0.05	0.05	0.08
Water Flow Rate	ASTM D-4491	gpm/ft ² (lpm/m2)	5 (204)	4 (163)	6 (244)
Roll Dimensions		ft (m)	12.5 x 432 (3.81 x 131.7) 15 x 360 (4.6 x 110)	12.5 x 360 (3.81 x 110) 15 x 360 (4.6 x 91.4)	12.5 ft x 360 3.8 x 110) 15 x 300 (4.6 x 91.4)
Roll Area		yd2 (m2)	600 (502)	500 (418)	500 (418)

High Strength Woven Geotextile Comparison

PROPERTY	TEST METHOD	UNIT	270HP	2X2HF	370HP	3X3HF	570HP	600HP	4X6	770HP
			MD x CD	MD x CD	MD x CD	MD x CD	MD x CD	MD x CD	MD x CD	MD x CD
Tensile Strength (Grab)	ASTM D-4632	lbs (N)	300 x 250 (334 x 1112)	320 x 320 (1424 x 1424)	450 x 350 (2003 x 1558)	450 x 350 (2003 x 1558)	475 x 440 (2114 x 1958)		600 x 700 (2670 x 3115)	
Elongation	ASTM D-4632	%	15 x 12	15 x 15	10 x 6	10 x 6	12 x 12		15 x 15	
Trapezoidal Tear	ASTM D-4533	lbs (N)	130 x 100 (578 x 445)	125 x 125 (556 x 556)	135 x 125 (601 x 556)	136 x 125 (601 x 556)	180 x 180 (801 x 801)		180 x 275 (801 x 1224)	
CBR Puncture	ASTM D-6241	lbs (N)	1150 (5115)	1400 (6230)	1450 (6450)	1600 (7120)	2200 (9786.1)		3000 (13344)	
Wide Width Tensile	ASTM D4595	lbs/ft (kN/m)	2850 x 2500 (41.6 x 36.5)	2700 x 2800 (39.4 x 40.9)	3600 x 3300 (52.5 x 48.2)	3600 x 3600 (52.5 x 52.5)	4800 x 4800 (70 x 70)	5280 x 5280 (77.04 x 77.04)	4800 x 7200 (70 x 105.1)	8500 x 6000 (138.6 x 87.5)
Wide Width Tensile @ 2% Strain	ASTM D4595	lbs/ft (kN/m)	675 x 700 (9.8x 10.2)	500 x 800 (7.3 x 11.7)	540 x 540 (7.9 x 7.9)	480 x 420 (7.0 x 6.1)	960 x 1320 (14.0 x 19.3)	480 x 1080 (7.0 x 15.76)		1370 x 1560 (20 x 22.8)
Wide Width Tensile @ 5% Strain	ASTM D4595	lbs/ft (kN/m)	1500 x 1440 (21.9 x 21.0)	1100 x 1700 (16.0 x 24.8)	1500 x 1560 (21.9 x 22.8)	1392 x 1740 (20.3 x 25.4)	2400 x 3000 (35 x 43.8)		2300 x 4000 (33.56 x 58.36)	3600 x 3600 (52.5 x 52.5)
Wide Width Tensile @ 10% Strain	ASTM D4595	lbs/ft (kN/m)	2700 x 2450 (39.4 x 35.7)	2000 x 2800 (29.2 x 40.9)		3180 X 3480 (46.4 x 50.8)				7000 x 6000 (102.1 x 87.5)
UV Resistance (500 Hrs)	ASTM D-4355	%	80	90	80	80	80	80	80	80
Apparent Opening Size (AOS)	ASTM D-4751	lbs (N)	30 (0.60)	40 (0.425)	30 (0.60)	31 (0.60)	30 (0.60)	40 (0.425)	40 (0.425)	30 (0.60)
Permittivity	ASTM D-4491	sec ⁻¹	0.70	0.7	0.52	0.52	0.50	0.40	0.26	0.23
Permeability	ASTM D-4491	cm/sec	0.04		0.05					0.04
Water Flow Rate	ASTM D-4491	gpm/ft ² (lpm/m2)	50 (2037)	50 (2037)	40 (1630)	40 (1630)	30 (1222)	30 (1222)	20 (815)	15 (611)
Roll Dimensions		ft (m)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)
Roll Area		yd2 (m2)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)

High Tensile Modulus

PROPERTY	TEST METHOD	UNIT	270HP	2X2HF	370HP
			MD x CD	MD x CD	MD x CD
Tensile Strength (Grab)	ASTM D-4632	lbs (N)	300 x 250 (334 x 1112)	320 x 320 (1424 x 1424)	450 x 350 (2003 x 1558)
Elongation	ASTM D-4632	%	15 x 12	15 x 15	10 x 6
Trapezoidal Tear	ASTM D-4533	lbs (N)	130 x 100 (578 x 445)	125 x 125 (556 x 556)	135 x 125 (601 x 556)
CBR Puncture	ASTM D-6241	lbs (N)	1150 (5115)	1400 (6230)	1450 (6450)
Wide Width Tensile	ASTM D4595	lbs/ft (kN/m)	2850 x 2500 (41.6 x 36.5)	2700 x 2800 (39.4 x 40.9)	3600 x 3300 (52.5 x 48.2)
Wide Width Tensile @ 2% Strain	ASTM D4595	lbs/ft (kN/m)	675 x 700 (9.8x 10.2)	500 x 800 (7.3 x 11.7)	540 x 540 (7.9 x 7.9)
Wide Width Tensile @ 5% Strain	ASTM D4595	lbs/ft (kN/m)	1500 x 1440 (21.9 x 21.0)	1100 x 1700 (16.0 x 24.8)	1500 x 1560 (21.9 x 22.8)
Wide Width Tensile @ 10% Strain	ASTM D4595	lbs/ft (kN/m)	2700 x 2450 (39.4 x 35.7)	2000 x 2800 (29.2 x 40.9)	
UV Resistance (500 Hrs)	ASTM D-4355	%	80	90	80
Apparent Opening Size (AOS)	ASTM D-4751	lbs (N)	30 (0.60)	40 (0.425)	30 (0.60)
Permittivity	ASTM D-4491	sec ⁻¹	0.70	0.7	0.52
Permeability	ASTM D-4491	cm/sec	0.04		0.05
Water Flow Rate	ASTM D-4491	gpm/ft ² (lpm/m2)	50 (2037)	50 (2037)	40 (1630)
Roll Dimensions		ft (m)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)	15 x 300 (4.6 x 91.4)
Roll Area		yd2 (m2)	500 (418)	500 (418)	500 (418)

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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