



Woven Polypropylene

			Silt Fence			Woven Slit Film						
Properties MARV ²	ASTM TEST	UNIT	GTF 160SF	GTF 170SF	GTF 180SF/190SF	GTF 100	GTF 150	GTF 200S	GTF 200	GTF 250	GTF 270	GTF 300
MECHANICAL PROPERTIES												
Grab Tensile Strength	D4632	lbs (N)	80 (356)	90 (400)	123/101 (550/450)	150/100 (668/445)	150 (668)	180 (801)	200 (890)	250 (1110)	270 (1201)	315 (1401)
Elongation	D4632	%	15	15	15	20/15	20/15	15	15	15	20/15	15
Trapezoid Tear	D4533	lbs (N)	25 (111)	30 (133)	50 (222)	40 (178)	60 (267)	70 (312)	75 (334)	90 (400)	100 (445)	115 (512)
Puncture	D4833	lbs (N)	N/A	N/A	60 (267)	60 (267)	70 (312)	80 (356)	100 (445)	100 (445)	120 (534)	150 (667)
CBR Puncture	D6241	lbs (N)	N/A	N/A	250 (1112)	350 (1558)	475 (2114)	550 (2448)	700 (3115)	900 (4005)	925 (4116)	1000 (4450)
Mullen Burst	D3786	psi (kPa)	N/A	N/A	280 (1930)	N/A	N/A	305 (2103)	400 (2757)	500 (3447)	600 (4137)	630 (4343)
ENDURANCE PROPERTIES												
UV Stability	D4355	% @ 500 hrs	80	80	80	80	80	80	80	80	80	80
HYDRAULIC PROPERTIES												
Permittivity	D4491	sec ⁻¹	0.050	0.050	0.050	0.080	0.100	0.080	0.080	0.050	0.050	0.050
Water Flow Rate	D4491	gpm/ft ² (l/min/m ²)	N/A	N/A	10 (407)	5.6 (228)	7.4 (302)	6.0 (244)	6.0 (244)	4.0 (163)	4.0 (163)	4.0 (163)
Permeability	D4491	(cm/sec)	0.010 ^T	0.010 ^T	0.010 ^T	0.010 ^T	0.010 ^T	0.010 ^T	0.010 ^T	0.005 ^T	0.005 ^T	0.005 ^T
Apparent Opening Size (AOS ³)	D4751	US Sieve Number (mm)	30 (0.600)	30 (0.600)	30 (0.600)	30 (0.600)	30 (0.600)	40 (0.425)	40 (0.425)	40 (0.425)	40 (0.425)	50 (0.300)
PHYSICAL PROPERTIES⁶												
Weight	D5261	oz/yd ² (g/m ²)	1.8 ^T (60 ^T)	2.2 ^T (75 ^T)	3.2 ^T (109 ^T)	2.4 ^T (82 ^T)	3.3 ^T (113 ^T)	4.5 ^T (152 ^T)	5.0 ^T (170 ^T)	5.5 ^T (187 ^T)	5.9 ^T (200 ^T)	6.8 ^T (231 ^T)
Thickness	D5199	mils (mm)	N/A	N/A	16 ^T (0.406 ^T)	N/A	N/A	18 ^T (0.457 ^T)	20 ^T (0.508 ^T)	21 ^T (0.533 ^T)	26 ^T (0.660 ^T)	28 ^T (0.711 ^T)
PACKAGING^{4,5}			GTF 160SF	GTF 170SF	GTF 180SF/190SF	GTF 100	GTF 150	GTF 200S	GTF 200	GTF 250	GTF 270	GTF 300
Roll Width		ft (m)	3 (0.914)	3 (0.914)	3 (0.914)	12.5/15/17.5 (3.81/4.57/5.33)	12.5/15/17.5 (3.81/4.57/5.33)	12.5/15/17.5 (3.81/4.57/5.33)	12.5/15/17.5 (3.81/4.57/5.33)	12.5/15/17.5 (3.81/4.57/5.33)	12.5/15/17.5 (3.81/4.57/5.33)	12.5/15/17.5 (3.81/4.57/5.33)
Roll Area		yd ² (m ²)	1000 (836)	1000 (836)	1000 (836)	600/800 (501/669)	600/800 (501/669)	600/800 (501/669)	600/800 (501/669)	600 (501)	600 (501)	600 (501)
Roll Weight		lbs (kg)	117 (53)	141 (64)	204 (92.6)	101/135 (46/61)	139/185 (63/84)	190/253 (86/115)	205/273 (93/139)	230 (104)	247 (112)	270 (123)

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Authorized Distributor:

Woven Polypropylene

			Medium Strength								Monofilament		
Properties MARV ²	ASTM TEST	UNIT	GTF 350	GTF 400	GTF 500	GTF 700	GTF 370	GTF 375N	GTF 565	GTF 570	GTF 400EO	GTF 400E	GTF 404
MECHANICAL PROPERTIES													
Grab Tensile Strength	D4632	lbs (N)	350 (1557)	400 (1780)	600/550 (2670/2450)	700 (3120)	400/250 (1780/1113)	425/350 (1891/1558)	550 (2448)	475/440 (2114/1958)	365/200 (1624/890)	370/250 (1647/1113)	400/315 (1780/1402)
Wide Width Tensile	D4595	lbs/in (kN/m)	250 (44)	333 (58)	400 (70)	517 (91)	270/225 (47.3/39.4)	270/225 (47.3/39.4)	350/400 (61.3/70.1)	400/400 (70.1/70.1)	200/140 (35/24)	225/145 (40/26)	250/230 (43.8/40.3)
Elongation	D4632	%	20/15	20/15	20/15	20/15	15/6	21/21	15/6	12/6	24/10	16/15	15/15
Trapezoid Tear	D4533	lbs (N)	120 (534)	150 (668)	230/200 (1024/890)	300/250 (1335/1112)	180/110 (757/490)	145/125 (645/556)	150/200 (668/890)	180/180 (801/801)	115/75 (512/334)	100/60 (445/267)	150/165 (668/704)
Puncture	D4833	lbs (N)	150 (668)	180 (801)	230 (1024)	300 (1335)	180 (801)	150 (668)	200 (890)	195 (868)	90 (401)	120 (534)	150 (668)
CBR Puncture	D6241	lbs (N)	1000 (4450)	1200 (5340)	1400 (6230)	1700 (7565)	N/A	N/A	N/A	N/A	675 (3004)	950 (4228)	1150 (5118)
Mullen Burst	D3786	psi (kPa)	N/A	N/A	N/A	N/A	800 (5515)	650 (4481)	1200 (8273)	1200 (8273)	450 (3102)	450 (3102)	800 (5506)
ENDURANCE PROPERTIES													
UV Stability	D4355	% @ 500 hrs	80	80	80	80	70	90	70	70	90	90	90
HYDRAULIC PROPERTIES													
Permittivity	D4491	sec ⁻¹	0.270	0.210	0.145	0.060	0.520	0.960	0.025	0.400	2.100	0.280	0.900
Water Flow Rate	D4491	gpm/ft ² (l/min/m ²)	20 (815)	15.7 (640)	15 (432)	5.1 (208)	40 (1630)	70 (2852)	2 (82)	30 (1222)	145 (5908)	18 (733)	70 (2852)
Permeability	D4491	cm/sec	0.034	0.033	0.023	0.030	0.050	0.046	0.001	0.050	0.140	0.010	0.068
Apparent Opening Size (AOS ³)	D4751	US Sieve Number (mm)	35 (0.500)	40 (0.425)	80 (0.180)	80 (0.180)	30 (0.600)	40 (0.425)	40 (0.425)	30 (0.600)	40 (0.425)	70 (0.212)	40 (0.425)
Percent Open Area CW02215		%	N/A	N/A	N/A	N/A	N/A	6	N/A	N/A	10	4 to 6	1
PHYSICAL PROPERTIES⁶													
Weight	D5261	oz/yd ² (g/m ²)	6.9 ^T (234 ^T)	9.1 ^T (309 ^T)	12.1 ^T (410 ^T)	14.75 ^T (500 ^T)	8.5 ^T (288 ^T)	7.4 ^T (251 ^T)	13.7 ^T (465 ^T)	14.5 ^T (492 ^T)	5.6 ^T (190 ^T)	5.6 ^T (190 ^T)	8.0 ^T (271 ^T)
Thickness	D5199	mils (mm)	46 ^T (1.168 ^T)	N/A	42 ^T (1.07 ^T)	N/A	38 ^T (0.965 ^T)	20 ^T (0.508 ^T)	45 ^T (1.143 ^T)	63 ^T (1.160 ^T)	28 ^T (0.711 ^T)	15 ^T (0.381 ^T)	35 ^T (0.889 ^T)
PACKAGING^{4,5}			GTF 350	GTF 400	GTF 500	GTF 700	GTF 370	GTF 375N	GTF 565	GTF 570	GTF 400EO	GTF 400E	GTF 404
Roll Width		ft (m)	15/17.1 (4.57/5.21)	15/17.1 (4.57/5.21)	15/17.1 (4.57/5.21)	15/17.1 (4.57/5.21)	15 (4.57)	12.5 (3.81)	15 (4.57)	15 (4.57)	12.5 (3.81)	12 (3.66)	15 (4.57)
Roll Area		yd ² (m ²)	500/622 (418/520)	500/622 (418/520)	500/622 (418/520)	500/622 (418/520)	500 (418)	417 (349)	500 (418)	500 (418)	417 (349)	400 (334)	500 (418)
Roll Weight		lbs (kg)	231/287 (105/130)	304/379 (138/172)	398/490 (181/222)	481/598 (218/272)	265 (120)	210 (95)	445 (202)	475 (215)	170 (77)	155 (70)	265 (120)

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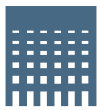
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T - Typical roll properties.



Needlepunched Nonwoven

Civil Nonwoven															
Properties	ASTM TEST	UNIT	120EX	125EX	130EX	140EX	145EX	150EX	160EX	180EX	225EX	245EX	250EX	275EX	350EX
MECHANICAL PROPERTIES															
Grab Tensile Strength	D4632	lbs (N)	80 (356)	90 (401)	105 (467)	120 (534)	140 (623)	165 (734)	180 (801)	205 (912)	215 (957)	250 (1112)	270 (1202)	300 (1335)	380 (1691)
Elongation	D4632	%	50	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoid Tear	D4533	lbs (N)	35 (156)	40 (178)	45 (200)	50 (223)	60 (267)	65 (289)	75 (334)	80 (356)	85 (378)	100 (445)	100 (445)	115 (512)	145 (645)
Puncture	D4833	lbs (N)	45 (200)	55 (245)	65 (289)	70 (312)	85 (378)	90 (401)	105 (467)	120 (534)	125 (556)	155 (690)	155 (690)	175 (779)	240 (1068)
CBR Puncture	D6241	lbs (N)	220 (979)	265 (1179)	300 (1335)	340 (1513)	360 (1602)	400 (1780)	475 (2114)	535 (2380)	600 (2670)	700 (3115)	725 (3226)	830 (3694)	1050 (4673)
Mullen Burst	D3786	psi (kPa)	160 (1103)	185 (1275)	210 (1448)	230 (1586)	280 (1930)	310 (2137)	330 (2275)	350 (2413)	360 (2482)	460 (3171)	460 (3171)	580 (3999)	750 (5171)
ENDURANCE PROPERTIES															
UV Stability	D4355	% @ 500 hrs	70	70	70	70	70	70	70	70	70	70	70	70	70
HYDRAULIC PROPERTIES															
Permittivity	D4491	sec ⁻¹	2.2	2.1	2.0	1.8	1.5	1.5	1.5	1.5	1.3	1.2	1.2	0.9	0.7
Water Flow Rate	D4491	gpm/ft ² (l/min/m ²)	160 (6519)	155 (6315)	145 (5908)	135 (5501)	115 (4886)	110 (4482)	110 (4482)	110 (4482)	95 (3871)	85 (3463)	85 (3463)	65 (2648)	50 (2037)
Permeability	D4491	cm/sec	0.22	0.22	0.22	0.22	0.22	0.25	0.25	0.30	0.30	0.25	0.25	0.20	0.20
Apparent Opening Size (AOS) ³	D4751	US Sieve Number (mm)	70 (0.212)	70 (0.212)	70 (0.212)	70 (0.212)	70 (0.212)	80 (0.180)	100 (0.150)	100 (0.150)	100 (0.150)	100 (0.150)	100 (0.150)	100 (0.150)	100 (0.150)
PHYSICAL PROPERTIES⁵															
Weight	D5261	oz/yd ² (g/m ²)	3.2 ^T (109 ^T)	3.5 ^T (119 ^T)	4.0 ^T (136 ^T)	4.5 ^T (153 ^T)	5.5 ^T (186 ^T)	6.0 ^T (204 ^T)	7.0 ^T (237 ^T)	8.0 ^T (271 ^T)	9.0 ^T (305 ^T)	10.0 ^T (339 ^T)	10.5 ^T (356 ^T)	12.0 ^T (407 ^T)	16.0 ^T (543 ^T)
Thickness	D5199	mils (mm)	45 ^T (1.143 ^T)	50 ^T (1.27 ^T)	55 ^T (1.397 ^T)	60 ^T (1.524 ^T)	70 ^T (1.778 ^T)	75 ^T (1.905 ^T)	85 ^T (2.159 ^T)	90 ^T (2.286 ^T)	95 ^T (2.413 ^T)	100 ^T (2.54 ^T)	100 ^T (2.54 ^T)	120 ^T (3.048 ^T)	150 ^T (3.81 ^T)
PACKAGING^{4,5}															
Roll Width		ft (m)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)
Roll Area		yd ² (m ²)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)
Roll Weight		lbs (kg)	125 (57)	135 (61)	150 (68)	170 (77)	208 (94)	230 (104)	260 (118)	290 (131)	315 (143)	350 (159)	365 (166)	410 (186)	530 (240)

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Needlepunched Nonwoven

Paving Fabric							Environmental Nonwoven							
Properties MARV ²	ASTM TEST	UNIT	AOL	AOM	AOH	AOE	Properties MARV ²	ASTM TEST	UNIT	600EX	800EX	1000EX	1200EX	1600EX
MECHANICAL PROPERTIES							MECHANICAL PROPERTIES							
Grab Tensile Strength	D4632	lbs (N)	90 (401)	105 (467)	120 (534)	150 (668)	Grab Tensile Strength	D4632	lbs (N)	165 (734)	205 (912)	270 (1202)	310 (1380)	425 (1891)
Elongation	D4632	%	50	50	50	50	Elongation	D4632	%	50	50	50	50	50
Trapezoid Tear	D4533	lbs (N)	40 (178)	45 (200)	50 (223)	55 (245)	Trapezoid Tear	D4533	lbs (N)	65 (289)	90 (401)	100 (445)	120 (534)	145 (645)
Puncture	D4833	lbs (N)	55 (245)	65 (289)	70 (312)	80 (356)	Puncture	D4833	lbs (N)	95 (423)	135 (601)	160 (712)	180 (801)	240 (1068)
CBR Puncture	D6241	lbs (N)	N/A	N/A	N/A	N/A	CBR Puncture	D6241	lbs (N)	425 (1891)	535 (2381)	725 (3225)	830 (3694)	1200 (5340)
Mullen Burst	D3786	psi (kPa)	185 (1275)	210 (1448)	230 (1586)	290 (1999)	Mullen Burst	D3786	psi (kPa)	315 (2172)	420 (2895)	500 (3447)	650 (4481)	800 (5515)
ENDURANCE PROPERTIES							ENDURANCE PROPERTIES							
UV Stability	D4355	% @ 500 hrs	70	70	70	70	UV Stability	D4355	% @ 500 hrs	70	70	70	70	70
ASPHALT RETENTION AND MELTING POINT							HYDRAULIC PROPERTIES							
Asphalt Retention	D6140	gal/yd ² (l/m ²)	0.25 (1.13)	0.25 (1.13)	0.25 (1.13)	0.30 (1.36)	Permittivity	D4491	sec ⁻¹	1.5	1.4	1.2	0.9	0.5
Melting Point	D276	F (C)	302 (150)	302 (150)	302 (150)	302 (150)	Water Flow Rate	D4491	gpm/ft ² (l/min/m ²)	110 (4482)	100 (4075)	85 (3463)	65 (2648)	40 (1630)
							Permeability	D4491	cm/sec	0.25	0.25	0.25	0.20	0.20
							Apparent Opening Size (AOS ³)	D4751	US Sieve Number (mm)	80 (0.180)	100 (0.150)	100 (0.150)	100 (0.150)	100 (0.150)
PHYSICAL PROPERTIES⁶							PHYSICAL PROPERTIES⁶							
Weight	D5261	oz/yd ² (g/m ²)	3.5 (119)	4.1 (140)	4.6 (156)	6 (203)	Weight	D5261	oz/yd ² (g/m ²)	6 (204)	8 (271)	10 (339)	12 (407)	16 (543)
Thickness	D5199	mils (mm)	50 ^T (1.27 ^T)	55 ^T (1.397 ^T)	60 ^T (1.524 ^T)	75 ^T (1.905 ^T)	Thickness	D5199	mils (mm)	75 ^T (1.905 ^T)	95 ^T (2.413 ^T)	110 ^T (2.794 ^T)	120 ^T (3.048 ^T)	175 ^T (4.445 ^T)
PACKAGING^{4,5}							PACKAGING^{4,5}							
			AOL	AOM	AOH	AOE				600EX	800EX	1000EX	1200EX	1600EX
Roll Width		ft (m)	10.5/12.5 (3.20/3.81)	10.5/12.5 (3.20/3.81)	10.5/12.5 (3.20/3.81)	10.5/12.5 (3.20/3.81)	Roll Width		ft (m)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)	12.5/15 (3.81/4.57)
Roll Area		yd ² (m ²)	420/500 (351/418)	420/500 (351/418)	420/500 (351/418)	420/500 (351/418)	Roll Area		yd ² (m ²)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)
Roll Weight		lbs (kg)	125/145 (57/66)	143/167 (65/76)	159/186 (72/84)	207/243 (94/110)	Roll Weight		lbs (kg)	250 (114)	320 (145)	400 (182)	480 (218)	572 (260)

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