



Woven Polypropylene

			Silt Fence		Woven Slit Film					
Properties	ASTM	UNIT	GTF	GTF	GTF	GTF	GTF	GTF	GTF	GTF
MARV ²	TEST		170SF	180SF/190SF	100	200S	200	250	270	300
MECHANICAL PROPERTIES										
Grab Tensile Strength	D4632	lbs (N)	90 (400)	123/101 (550/450)	150/100 (668/445)	180 (801)	200 (890)	250 (1110)	270 (1201)	315 (1401)
Elongation	D4632	%	15	15	20/15	15	15	15	20/15	15
Trapezoid Tear	D4533	lbs (N)	30 (133)	40 (178)	40 (178)	70 (312)	75 (334)	90 (400)	100 (445)	115 (512)
CBR Puncture	D6241	lbs (N)	250 (1112)	250 (1112)	350 (1558)	550 (2448)	700 (3115)	900 (4005)	925 (4116)	1000 (4450)
ENDURANCE PROPERTIES										
UV Stability	D4355	% @ 500 hrs	80	80	80	80	80	80	80	80
HYDRAULIC PROPERTIES										
Permittivity	D4491	sec ⁻¹	0.050	0.150	0.080	0.080	0.080	0.050	0.050	0.050
WaterFlow Rate	D4491	gpm/ft2 (l/min/m2)	N/A	10	5.6 (228)	6.0 (244)	6.0 (244)	4.0 (163)	4.0 (163)	4.0 (163)
Apparent Opening Size (AOS ³)	D4751	US Sieve mm	30	30	30	40	40	40	40	50
PHYSICAL PROPERTIES⁶										
Weight	D5261	oz/yd ² (g/m2)	2.2 ^T (75 ^T)	3.2 ^T (109 ^T)	2.4 ^T (82 ^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)	12.5 ^T (0.318 ^T)	16 ^T (0.406 ^T)	20 ^T (0.508 ^T)	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	GTF	GTF	GTF	GTF	GTF	GTF	GTF
			170SF	180SF/190SF	100	200S	200	250	270	300
Roll Width		ft (m)	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)
Roll Length		ft (m)	3000 (914)	3000 (914)	432/360/309 (132/110/94)	432/360/309 (132/110/94)	432/360/309 (132/110/94)	432/360/309 (132/110/94)	432/360/309 (132/110/94)	432/360/309 (132/110/94)
Roll Area		yd2 (m ²)	1000 (836)	1000 (836)	600 (501)	600 (501)	600 (501)	600 (501)	600 (501)	600 (501)
Roll Weight		lbs (kg)	141 (64)	204 (92.6)	101 (46)	190 (86)	205 (93)	230 (104)	247 (112)	270 (123)

¹ Contact your Thrace-LINQ distributor or representative for technical assistance and for products meeting AASHTO M288 specifications.

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⁴ Other products and roll sizes may be available.

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^T Typical roll properties.

Authorized Distributor:

Mullen Burst ASTM D3786 and Puncture D4833 have been removed.

Neither test method is recognized by AASHTO M288.

CBR puncture D6241 has replaced D4833, under AASHTO M288.

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Woven Polypropylene

			Medium Strength							Monofilament		
Properties MARV ²	ASTM TEST	UNIT	GTF 350	GTF 400	GTF 500	GTF 700	GTF 320	GTF 370	GTF 570	GTF 400EO	GTF 400E	GTF 404
MECHANICAL PROPERTIES												
Grab Tensile Strength	D4632	lbs (N)	387/350 (1722/1558)	430/400 (1914/1780)	648/631 (2884/2808)	700 (3120)	290/255 (1291/1135)	400/250 (1780/1113)	475/440 (2114/1958)	365/200 (1624/890)	370/250 (1647/1113)	400/315 (1780/1402)
Wide Width Tensile	D4595	lbs/in (kN/m)	257/258 (45)	354/343 (62/60)	424/424 (74/74)	533/502 (93/90)	220/220 (38.5/38.5)	300/225 (52.5/39.4)	400/400 (70.1/70.1)	200/140 (35/24)	225/145 (40/26)	250/230 (43.8/40.3)
Elongation	D4632	%	24/18	21/16	23/20	20/15	20/20	15/6	12/6	24/10	15/15	15/15
Trapezoid Tear	D4533	lbs (N)	125 (556)	145/135 (645/601)	225/200 (1001/890)	300/250 (1335/1112)	120/140 (534/623)	180/110 (757/490)	180/180 (801/801)	115/75 (512/334)	100/60 (445/267)	150/165 (668/704)
Puncture	D4833	lbs (N)	169 (752)	211 (939)	278 (1237)	300 (1335)	120 (534)	180 (801)	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	2000 (8900)	675 (3004)	950 (4228)	1150 (5118)
ENDURANCE PROPERTIES												
UV Stability	D4355	% @ 500 hrs	80	80	80	80	80	80	80	90	90	90
HYDRAULIC PROPERTIES												
Permittivity	D4491	sec ⁻¹	0.209	0.210	0.130	0.060	0.700	0.520	0.400	2.100	0.280	0.900
WaterFlow Rate	D4491	gpm/ft ² (l/min/m ²)	15.4 (627)	15.5 (632)	11 (448)	5.1 (208)	50 (2037)	40 (1630)	30 (1222)	145 (5908)	18 (733)	70 (2852)
Apparent Opening Size (AOS ³)	D4751	US Sieve (mm)	35 (0.500)	40 (0.425)	80 (0.180)	80 (0.180)	30 (0.600)	30 (0.600)	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	N/A	N/A	10	4 to 6	1
PHYSICAL PROPERTIES⁶												
Weight	D5261	oz/yd ² (g/m ²)	6.9T (234 ^T)	9.1T (309 ^T)	12.1T (410 ^T)	14.75T (500 ^T)	6.7T (227 ^T)	8.5T (288 ^T)	14.5T (492 ^T)	5.6T (190 ^T)	5.6T (190 ^T)	8.0T (271 ^T)
Thickness	D5199	mils (mm)	46T (1.168 ^T)	40T (1.02 ^T)	42T (1.07 ^T)	60 ^T (1.52 ^T)	45T (1.142 ^T)	38T (0.965 ^T)	63 ^T (1.160 ^T)	28T (0.711 ^T)	15T (0.381 ^T)	35T (0.889 ^T)
Packaging⁴			GTF 350	GTF 400	GTF 500	GTF 700	GTF 320	GTF 370	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)	15 (4.57)	15 (4.57)	12 (3.66)	12 (3.66)	15 (4.57)
Roll Length		ft (m)	300/328 (91/100)	300/328 (91/100)	300/328 (91/100)	300/328 (91/100)	300 (91)	300 (91)	300 (91)	300 (91)	300 (91)	300 (91)
Roll Area		yd ² (m ²)	500/622 (418/520)	500/622 (418/520)	500/622 (418/520)	500/622 (418/520)	500 (418)	500 (418)	500 (418)	400 (334)	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)	265 (120)	475 (215)	155 (70)	155 (70)	265 (120)

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^T Typical roll properties.

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Needlepunched Nonwoven

Civil Nonwoven

Properties	ASTM	UNIT	120EX	125EX	130EX	140EX	145EX	150EX	160EX	180EX	225EX	245EX	250EX	275EX	350EX
MECHANICAL PROPERTIES															
MARV ²	TEST	UNIT													
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)
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)
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 (4686)	110 (4482)	110 (4482)	110 (4482)	95 (3871)	85 (3463)	85 (3463)	65 (2648)	50 (2037)
Apparent Opening Size (AOS ³)	D4751	US Sieve (mm)	70 (2.8)	70 (2.8)	70 (2.8)	70 (2.8)	70 (2.8)	80 (3.2)	100 (4.0)	100 (4.0)	100 (4.0)	100 (4.0)	100 (4.0)	100 (4.0)	100 (4.0)
PHYSICAL PROPERTIES⁶															
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)	5.0 ^T (170 ^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 Length		ft (m)	360/360 (110/110)	360/360 (110/110)	360/360 (110/110)	360/360 (110/110)	360/300 (110/91)	360/300 (110/91)	360/300 (110/91)	360/300 (110/91)	360/300 (110/91)	360/300 (110/91)	360/300 (110/91)	360/300 (110/91)	360/300 (110/91)
Roll Area		yd ² (m ²)	500/600 (418/501)	500/600 (418/501)	500/600 (418/501)	500/600 (418/501)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)
Roll Weight		lbs (kg)	120/140 (54/64)	129/141 (59/64)	145/170 (66/77)	161/189 (73/86)	176 (80)	208 (94)	239 (108)	270 (122)	301 (137)	333 (151)	348 (158)	395 (179)	520 (236)

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Needlepunched Nonwoven Specialty Products

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)	101 (450)	120 (534)	150 (668)	Grab Tensile Strength	D4632	lbs (N)	160 (712)	220 (979)	270 (1202)	320 (1424)	425 (1891)
Grab Tensile Elongation	D4632	%	50	50	50	50	Grab Tensile Elongation	D4632	%	50	50	50	50	50
Grab Asphalt Saturated	D4632 mod	lbs (N)	90 (401)	101 (450)	N/A	N/A	Trapezoid Tear	D4533	lbs (N)	65 (289)	90 (401)	100 (445)	120 (534)	150 (668)
Grab Asphalt Saturated	D4632 mod	%	50	50	N/A	N/A	CBR	D6241	lbs (N)	435 (1936)	575 (2559)	725 (3226)	830 (3694)	1200 (5340)
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)
Change in Area asphalt saturated	Tx 3099	% change	+/- 15%	+/- 15%	+/- 15%	+/- 15%	Apparent Opening Size (AOS ³)	D4751	US Sieve (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}							
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)	15 (4.57)	15 (4.57)	15 (4.57)	15 (4.57)	15 (4.57)
Roll Length		ft (m)	360/360 (110/110)	360/360 (110/110)	360/360 (110/110)	360/360 (110/110)	Roll Length		ft (m)	300 (91)	300 (91)	300 (91)	300 (91)	300 (91)
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)	225 (102)	285 (129)	364 (165)	426 (193)	551 (250)

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