

Woven Polypropylene

			Silt Fence		Woven Slit Film					
Properties	ASTM TEST	UNIT	GTF 170SF AASHTO	GTF 180SF/190SF AASHTO	GTF 100	GTF 200S AASHTO	GTF 200 AASHTO	GTF 250 AASHTO	GTF 270	GTF 300 AASHTO
MECHANICAL PROPERTIES²										
Grab Tensile Strength	D4632	lbs (N)	90 (400)	125 / 101 (556 / 449)	150 / 100 (667 / 445)	180 (801)	200 (890)	250 (1112)	270 (1201)	315 (1401)
Elongation	D4632	%	15	15	15	15	15	15	15	15
Trapezoid Tear	D4533	lbs (N)	30 (133)	40 (178)	40 (178)	70 (311)	75 (334)	90 (400)	100 (445)	115 (512)
CBR Puncture	D6241	lbs (N)	250 (1112)	250 (1112)	350 (1557)	550 (2447)	700 (3114)	900 (4003)	925 (4115)	1000 (4448)
ENDURANCE PROPERTIES²										
UV Stability	D4355	% @ 500 hrs	80	80	80	80	80	80	80	80
HYDRAULIC PROPERTIES²										
Permittivity	D4491	sec ⁻¹	0.050	0.050	0.080	0.080	0.080	0.050	0.050	0.050
WaterFlow Rate	D4491	gpm/ft ² (l/min/m ²)	4 (163)	11 (448)	6 (244)	6 (244)	6 (244)	4 (163)	4 (163)	4 (163)
Apparent Opening Size (AOS ³)	D4751	US Sieve (mm)	30 (0.600)	30 (0.600)	30 (0.600)	40 (0.425)	40 (0.425)	40 (0.425)	40 (0.425)	40 (0.425)
Packaging^{4,T}										
Roll Width		ft (m)	3 (0.9)	3 (0.9)	12.5 / 15 / 17.5 (3.8 / 4.6 / 5.3)	12.5 / 15 / 17.5 (3.8 / 4.6 / 5.3)	12.5 / 15 / 17.5 (3.8 / 4.6 / 5.3)	12.5 / 15 / 17.5 (3.8 / 4.6 / 5.3)	12.5 / 15 / 17.5 (3.8 / 4.6 / 5.3)	12.5 / 15 / 17.5 (3.8 / 4.6 / 5.3)
Roll Length		ft (m)	3000 (914.4)	3000 (914.4)	432 / 360 / 309 (131.1 / 109.7 / 94.3)	432 / 360 / 309 (131.1 / 109.7 / 94.3)	432 / 360 / 309 (131.1 / 109.7 / 94.3)	360 / 300 / 258 (109.7 / 91.4 / 78.5)	360 / 300 / 258 (109.7 / 91.4 / 78.5)	360 / 300 / 258 (109.7 / 91.4 / 78.5)
Roll Area		yd ² (m ²)	1000 (914.4)	1000 (914.4)	600 / 600 / 600 (131.1 / 109.7 / 94.3)	600 / 600 / 600 (131.1 / 109.7 / 94.3)	600 / 600 / 600 (131.1 / 109.7 / 94.3)	500 / 500 / 500 (109.7 / 91.4 / 78.5)	500 / 500 / 500 (109.7 / 91.4 / 78.5)	500 / 500 / 500 (109.7 / 91.4 / 78.5)
Roll Weight (est.)		lbs (kg)	140 (64)	177 (80)	101 / 103 / 106 (46 / 47 / 48)	180 / 182 / 185 (82 / 83 / 84)	180 / 182 / 185 (82 / 83 / 84)	177 / 179 / 182 (80 / 81 / 83)	189 / 191 / 194 (86 / 87 / 88)	205 / 207 / 210 (93 / 94 / 95)

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Authorized Distributor:

Mullen Burst ASTM D3786 and Puncture D4833 have been removed.

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Woven Polypropylene

			Medium Strength							Monofilament			
Properties	ASTM TEST	UNIT	GTF 350	GTF 400	GTF 500	GTF 700	GTF 320	GTF 370	GTF 570	GTF 400EO	GTF 400E AASHTO	GTF 404 AASHTO	GTF 117F
MECHANICAL PROPERTIES²													
Grab Tensile Strength	D4632	lbs (N)	350 / 350 (1557 / 1557)	400 / 400 (1779 / 1779)	600 / 600 (2669 / 2669)	700 / 700 (3114 / 3114)	295 / 260 (1312 / 1157)	450 / 320 (2002 / 1423)	500 / 475 (2224 / 2113)	370 / 220 (1646 / 979)	370 / 250 (1646 / 1112)	400 / 315 (1779 / 1401)	350 / 225 (1557 / 1001)
Wide Width Tensile ULT	D4595	lbs/ft (kN/m)	3179 / 2711 (46 / 40)	3749 / 4030 (55 / 59)	4800 / 4800 (70 / 70)	6056 / 5515 (88 / 80)	2640 / 2460 (39 / 36)	3600 / 3240 (53 / 47)	4800 / 4800 (70 / 70)	2400 / 1740 (35 / 25)	2700 / 1740 (39 / 25)	3000 / 2760 (44 / 40)	N/A (N/A)
WW Elongation	D4632	%	11.4 / 7.9	9.4 / 6.6	10.2 / 7.2	13.2 / 9.6	9.0 / 8.0	9.0 / 7.0	9.0 / 5.5	19.0 / 7.0	17.0 / 15.0	12.0 / 8.0	N/A
Trapezoid Tear	D4533	lbs (N)	120 / 120 (534 / 534)	150 / 150 (667 / 667)	200 / 200 (890 / 890)	250 / 250 (1112 / 1112)	110 / 130 (489 / 578)	150 / 160 (668 / 712)	180 / 180 (801 / 801)	115 / 75 (512 / 334)	100 / 60 (445 / 267)	150 / 165 (667 / 734)	110 / 75 (489 / 334)
CBR Puncture	D6241	lbs (N)	1000 (4448)	1200 (5338)	1400 (6228)	1700 (7562)	1000 (4450)	1300 (5785)	2000 (8900)	675 (3003)	950 (4226)	1150 (5115)	1000 (4448)
ENDURANCE PROPERTIES²													
UV Stability	D4355	% @ 500 hrs	80	80	80	80	80	80	80	90	90	90	90
HYDRAULIC PROPERTIES²													
Permittivity	D4491	sec ⁻¹	0.150	0.160	0.136	0.109	0.600	0.900	0.400	2.100	0.280	0.900	1.500
WaterFlow Rate	D4491	gpm/ft ² (l/min/m ²)	11 (448)	12 (489)	10 (407)	8 (326)	40 (1630)	40 (1630)	30 (1222)	145 (5908)	18 (733)	70 (2852)	200 (8149)
Apparent Opening Size (AOS ³)	D4751	US Sieve (mm)	40 (0.425)	40 (0.425)	80 (0.180)	80 (0.180)	30 (0.600)	40 (0.425)	30 (0.600)	40 (0.425)	70 (0.212)	40 (0.425)	20 (0.850)
Percent Open Area CW02215		%	N / A	N / A	N / A	N / A	N / A	N / A	N / A	10	4 to 6	1	20
Packaging^{4,T}													
Roll Width		ft (m)	15 / 17.1 (4.6 / 5.2)	15 / 17.1 (4.6 / 5.2)	15 / 17.1 (4.6 / 5.2)	15 / 17.1 (4.6 / 5.2)	15 (4.6)	15 (4.6)	15 (4.6)	12.5 (3.8)	12 (3.7)	15 (4.6)	12 (3.7)
Roll Length		ft (m)	300 / 328 (91.4 / 100.0)	300 / 328 (91.4 / 100.0)	300 / 328 (91.4 / 100.0)	300 / 328 (91.4 / 100.0)	300 (91.4)	300 (91.4)	300 (91.4)	300 (91.4)	300 (91.4)	300 (91.4)	300 (91.4)
Roll Area		yd ² (m ²)	500 / 623 (91.4 / 100.0)	500 / 623 (91.4 / 100.0)	500 / 623 (91.4 / 100.0)	500 / 623 (91.4 / 100.0)	500 (91.4)	500 (91.4)	500 (91.4)	416 (91.4)	400 (91.4)	500 (91.4)	400 (91.4)
Roll Weight (est.)		lbs (kg)	226 / 285 (103 / 129)	282 / 355 (128 / 161)	363 / 456 (165 / 207)	457 / 573 (207 / 260)	279 (127)	329 (149)	454 (206)	190 (86)	193 (88)	310 (141)	153 (69)

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Needlepunched Nonwoven

Civil Nonwoven															
Properties	ASTM TEST	UNIT	120EX	125EX	130EX	140EX AASHTO	145EX	150EX AASHTO	160EX	180EX AASHTO	225EX	245EX	250EX	275EX	350EX
MECHANICAL PROPERTIES²															
Grab Tensile Strength	D4632	lbs (N)	80 (356)	90 (400)	105 (467)	120 (534)	140 (623)	160 (712)	180 (801)	205 (912)	215 (956)	250 (1112)	270 (1201)	305 (1357)	380 (1690)
Elongation	D4632	%	50	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoid Tear	D4533	lbs (N)	30 (133)	40 (178)	45 (200)	50 (222)	55 (245)	60 (267)	75 (334)	80 (356)	85 (378)	100 (445)	100 (445)	115 (512)	145 (645)
CBR Puncture	D6241	lbs (N)	210 (934)	265 (1179)	300 (1334)	340 (1512)	360 (1601)	410 (1824)	475 (2113)	535 (2380)	600 (2669)	700 (3114)	725 (3225)	830 (3692)	1050 (4671)
ENDURANCE PROPERTIES²															
UV Stability	D4355	% @ 500 hrs	70	70	70	70	70	70	70	70	70	70	70	70	70
HYDRAULIC PROPERTIES²															
Permittivity	D4491	sec ⁻¹	2.20	2.10	2.00	1.80	1.50	1.50	1.50	1.50	1.30	1.20	1.20	0.90	0.70
Water Flow Rate	D4491	gpm/ft ² (l/min/m ²)	160 (6519)	150 (6112)	145 (5908)	130 (5297)	110 (4482)	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 (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 PROPERTIES (Nominal)															
Weight	D5261	oz/yd ² (g/m ²)	3.2 (108)	3.5 (119)	4 (136)	4.5 (153)	5 (170)	6 (203)	7 (237)	8 (271)	9 (305)	10 (339)	10.5 (356)	12 (407)	16 (542)
Packaging^{4,T}															
Roll Width		ft (m)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)	12.5 / 15 (3.8 / 4.6)
Roll Length		ft (m)	360 / 360 (109.7 / 109.7)	360 / 360 (109.7 / 109.7)	360 / 360 (109.7 / 109.7)	360 / 360 (109.7 / 109.7)	360 / 360 (109.7 / 109.7)	360 / 300 (109.7 / 91.4)	360 / 300 (109.7 / 91.4)	360 / 300 (109.7 / 91.4)	360 / 300 (109.7 / 91.4)	360 / 300 (109.7 / 91.4)	360 / 300 (109.7 / 91.4)	360 / 300 (109.7 / 91.4)	360 / 300 (109.7 / 91.4)
Roll Area		yd ² (m ²)	500 / 600 (418 / 502)	500 / 600 (418 / 502)	500 / 600 (418 / 502)	500 / 600 (418 / 502)	500 / 600 (418 / 502)	500 / 500 (418 / 418)	500 / 500 (418 / 418)	500 / 500 (418 / 418)	500 / 500 (418 / 418)	500 / 500 (418 / 418)	500 / 500 (418 / 418)	500 / 500 (418 / 418)	500 / 500 (418 / 418)
Roll Weight (est.)		lbs (kg)	111 / 133 (50 / 60)	120 / 144 (54 / 65)	136 / 163 (62 / 74)	152 / 182 (69 / 83)	167 / 201 (76 / 91)	199 / 201 (90 / 91)	230 / 232 (104 / 105)	261 / 263 (118 / 119)	292 / 294 (132 / 133)	324 / 326 (147 / 148)	339 / 341 (154 / 155)	386 / 388 (175 / 176)	511 / 513 (232 / 233)

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Needlepunched Nonwoven Specialty Products

Environmental Nonwoven

Properties	ASTM TEST	UNIT	400EX	600EX	800EX	1000EX	1200EX	1600EX	2000EX	2400EX	2800EX	3200EX
MECHANICAL PROPERTIES²												
Grab Tensile Strength	D4632	lbs (N)	105 (467)	160 (712)	220 (979)	270 (1201)	320 (1423)	425 (1890)	450 (2002)	500 (2224)	550 (2447)	600 (2669)
Grab Tensile Elongation	D4632	%	50	50	50	50	50	50	50	50	50	50
Trapezoid Tear	D4533	lbs (N)	45 (200)	65 (289)	90 (400)	100 (445)	120 (534)	150 (667)	125 (556)	200 (890)	250 (1112)	270 (1201)
CBR	D6241	lbs (N)	300 (1334)	435 (1935)	575 (2558)	725 (3225)	900 (4003)	1200 (5338)	1450 (6450)	1750 (7784)	2050 (9119)	2350 (10453)
ENDURANCE PROPERTIES²												
UV Stability	D4355	% @ 500 hrs	70	70	70	70	70	70	70	70	70	70
HYDRAULIC PROPERTIES²												
Permittivity	D4491	sec ⁻¹	2.00	1.50	1.40	1.20	0.90	0.60	N/A	N/A	N/A	N/A
Water Flow Rate	D4491	gpm/ft ² (l/min/m ²)	147 (5990)	110 (4482)	100 (4075)	85 (3463)	65 (2648)	40 (1630)	N/A (N/A)	N/A (N/A)	N/A (N/A)	N/A (N/A)
Apparent Opening Size (AOS ³)	D4751	US Sieve (mm)	70 (0.212)	80 (0.180)	100 (0.150)	100 (0.150)	100 (0.150)	100 (0.150)	N/A (N/A)	N/A (N/A)	N/A (N/A)	N/A (N/A)
PHYSICAL PROPERTIES²												
Weight	D5261	oz/yd ² (g/m ²)	4 (136)	6 (203)	8 (271)	10 (339)	12 (407)	16 (542)	20 (678)	24 (814)	28 (949)	32 (1085)
Thickness	D5199	mils (mm)	55 (1.397)	70 (1.778)	95 (2.413)	100 (2.540)	120 (3.048)	140 (3.556)	160 (4.064)	180 (4.572)	195 (4.953)	210 (5.334)
Packaging^{4,T}												
Roll Width	ft	12.5 / 15	15	15	15	15	15	15	15 / 17	15 / 17	15 / 17	15 / 17
	(m)	(3.8 / 4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6 / 5.2)	(4.6 / 5.2)	(4.6 / 5.2)	(4.6 / 5.2)
Roll Length	ft	360 / 360	300	300	300	300	300	300	150 / 150	150 / 150	150 / 150	150 / 150
	(m)	(109.7 / 109.7)	(91.4)	(91.4)	(91.4)	(91.4)	(91.4)	(91.4)	(45.7 / 45.7)	(45.7 / 45.7)	(45.7 / 45.7)	(45.7 / 45.7)
Roll Area	yd ²	500 / 600	500	500	500	500	500	500	250 / 283	250 / 283	250 / 283	250 / 283
	(m ²)	(418 / 502)	(418)	(418)	(418)	(418)	(418)	(418)	(209 / 237)	(209 / 237)	(209 / 237)	(209 / 237)
Roll Weight (est.)	lbs	152 / 182	216	279	341	404	529	644	814	949	1112	1201
	(kg)	(69 / 83)	(98)	(127)	(155)	(183)	(240)	(299)	(367)	(433)	(504)	(545)

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Needlepunched Nonwoven Specialty Products

Paving Fabric						
Properties	ASTM TEST	UNIT	AOL	AOM AASHTO	AOH	AOE
MECHANICAL PROPERTIES²						
Grab Tensile Strength	D4632	lbs (N)	90 (400)	101 (449)	120 (534)	150 (667)
Grab Tensile Elongation	D4632	%	50	50	50	50
Grab Asphalt Saturated	D4632 mod	lbs (N)	90 (400)	101 (449)	N / A (N/A)	N / A (N/A)
Grab Asphalt Saturated	D4632 mod	%	50	50	N / A	N / A
ENDURANCE PROPERTIES²						
UV Stability	D4355	% @ 500 hrs	70	70	70	70
ASPHALT RETENTION AND MELTING POINT²						
Asphalt Retention	D6140	gal/yd ² (l/m ²)	0.20 (0.91)	0.20 (0.91)	0.24 (1.09)	0.25 (1.13)
Melting Point	D276	F (C)	320 (160)	320 (160)	320 (160)	320 (160)
Change in Area asphalt saturated	Tx 3099	%change	+ / - 15%	+ / - 15%	+ / - 15%	+ / - 15%
PHYSICAL PROPERTIES²						
Weight	D5261	oz/yd ² (g/m ²)	3.5 (119)	4.1 (139)	4.6 (156)	6 (203)
Packaging^{4,T}						
Roll Width		ft (m)	10.5 / 12.5 (3.2 / 3.8)	10.5 / 12.5 (3.2 / 3.8)	10.5 / 12.5 (3.2 / 3.8)	10.5 / 12.5 (3.2 / 3.8)
Roll Length		ft (m)	360 / 360 (109.7 / 109.7)	360 / 360 (109.7 / 109.7)	360 / 360 (109.7 / 109.7)	360 / 360 (109.7 / 109.7)
Roll Area		yd ² (m ²)	420 / 500 (351 / 418)	420 / 500 (351 / 418)	420 / 500 (351 / 418)	420 / 500 (351 / 418)
Roll Weight (est.)		lbs (kg)	110 / 125 (50 / 57)	126 / 144 (57 / 65)	139 / 160 (63 / 73)	176 / 204 (80 / 93)

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Geogrids

Biaxial Geogrid				
Properties	ASTM TEST	UNIT	TLG-11	TLG-12
INDEX⁴				
Aperture Dimensions	Nominal	in (mm)	1.0 / 1.3 (25 / 33)	1.0 / 1.3 (25 / 33)
Minimum Rib Thickness	Nominal	in (mm)	0.03 / 0.03 (0.76 / 0.76)	0.05 / 0.05 (1.27 / 1.27)
Tensile Strength at 2% Strain	D6637	lb/ft (kN/m)	280 / 450 (4.1 / 6.6)	410 / 620 (6.0 / 9.0)
Tensile Strength at 5% Strain	D6637	lb/ft (kN/m)	580 / 920 (8.5 / 13.4)	810 / 1340 (11.8 / 19.6)
Ultimate Tensile Strength	D6637	lb/ft (kN/m)	850 / 1300 (12.4 / 19.0)	1310 / 1970 (19.1 / 28.7)
STRUCTURAL INTEGRITY				
Junction Efficiency	GRI GG2	% Ult. Str.	93	93
Flexural Stiffness	D5732	mg-cm	250,000	750,000
Aperture Stability	COE Method	m-N/deg	0.32	0.65
DURABILITY				
Installation Damage Resistance	D6637	%SC %SW %GP	95 / 93 / 90	95 / 93 / 90
Long Term Degradation Resistance ⁶		%	100	100
UV Degradation Resistance ⁷		%	100	100
Packaging^{4,T}				
Roll Width		ft (m)	12.95 (3.95)	12.95 (3.95)
Roll Length		ft (m)	246 (75.0)	164 (50.0)
Roll Area		yd ² (m ²)	354 (296)	236 (197)
Roll Weight (est.)		lbs (kg)	145 (66)	139 (63)

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² Thrace-LINQ reserves the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data are current and that the product is suitable for its intended end use.

³ Polypropylene is the constituent polymer used in the production of the Thrace-LINQ biaxial geogrids.

⁴ Unless noted otherwise, shown values are minimum average roll values measured according to ASTM D4759-02.

⁵ Resistance to loss of load capacity/structural integrity when it is subjected to mechanical installation stress in poorly graded gravel (GP), well graded sand (SW), and clayey sand (SC). Load capacity to be determined according to ASTM D6637-01 and geogrid sampled according to ASTM D5818-06.

⁶ Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EN 14030.

⁷ Resistance to loss of load capacity or structural integrity when subjected to ultraviolet light and aggressive weathering in accordance with EN 12224.