



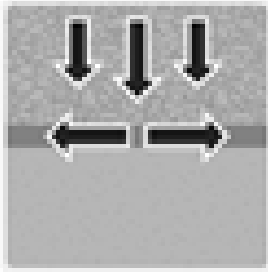
TERRAFIX HIGH PERFORMANCE (THP) WOVENS



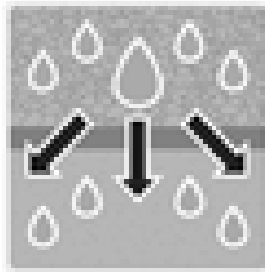
HIGH MODULUS (HM) HIGH PERFORMANCE (HP) WOVENS

HIGH PERFORMANCE GEOTEXTILES

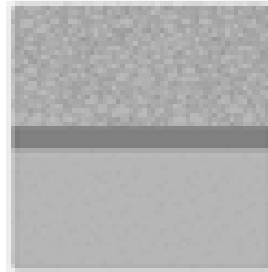
Terrafix High Performance woven geotextiles are designed and manufactured for many construction applications. They perform the three primary functions of a geotextile: separation (separating the native subgrade from an aggregate layer); reinforcement (reinforcing an area by distributing weight over a wider area); and filtration (retaining soil while allowing the passage of water). THP woven geotextiles are made of polypropylene filaments that are formed into a stable network such that they retain their relative position. A range of geotextiles is offered to meet the requirements of various applications.



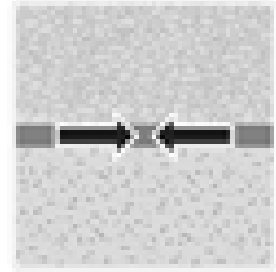
REINFORCEMENT



FILTRATION



SEPARATION



CONFINEMENT



FIBRILLATED YARN & MONOFILAMENT HIGH STRENGTH WOVENS

Terrafix High Performance (THP) Woven - Separation Critical

Separation critical woven products offer a solid combination of separation, filtration, and durability capabilities, allowing them to often be the “product of choice” for a broad spectrum of applications including roads, pond capping, low-energy shorelines, and resource recovery operations.

Each of these woven geotextiles is comprised of high-quality polypropylene resin and carbon black where the cross-machine direction is made of a fibrillated yarn and the machine direction is made of a monofilament

Property	Test Method ASTM	Units	THP-2700	THP-3700	THP-5700	THP-7700
Grab Tensile	D4632	lbs kN	295 x 260 1.31 x 1.16	400 x 300 1.78 x 1.34	500 x 500 2.22 x 2.22	600 x 500 2.67 x 2.23
Grab Elongation	D4632	%	13 x 12	10 x 6	11 x 4	12 x 6
Wide Width Tensile (Ultimate)	D4595	lbs/ft kN/m	2640 x 2460 38.5 x 35.9	3600 x 3240 52.5 x 47.3	4800 x 4800 70 x 70	7200 x 5760 105.1 x 84.0
Wide Width Tensile @ 2%	D4595	lbs/ft kN/m	500 x 600 7.3 x 8.8	540 x 540 7.9 x 7.9	960 x 1500 14.0 x 21.9	1360 x 1560 19.9 x 22.8
Wide Width Tensile @ 5%	D4595	lbs/ft kN/m	1272 x 1440 18.6 x 21	1500 x 1560 21.9 x 22.8	2400 x 3000 35.0 x 43.8	3600 x 3600 52.5 x 52.5
Trapezoid Tear	D4533	lbs kN	110 x 130 0.49 x 0.58	135 x 125 0.60 x 0.56	180 x 180 0.8 x 0.8	250 x 200 1.11 x 0.89
CBR Puncture	D6241	lbs kN	1000 4.45	1450 6.45	2000 8.9	1900 8.45
Permittivity ¹	D4491	sec ⁻¹	0.6	0.9	0.5	0.9
Water Flow Rate ¹	D4491	gpm/ft ² lpm/m ²	40 1630	60 2444	45 1426	65 2678
AOS ^{1,2}	D4751	YS std. Sieve mm	30 0.6	30 0.6	30 0.6	20 0.85
UV Resistance	D4355	% @ 500hrs	80	80	80	80

1. At the time of manufacturing. Handling, storage, and shipping may change these properties.

2. Value represents maximum average roll value.

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07-2023

TERRAFIX HIGH MODULUS (THM) WOVENS

Woven Geotextiles manufactured with High Tenacity Polypropylene Yarns

Property	Test Method ASTM	Units	THM-2800	THM-3800	THM-5800
Mr Improvement Factor ¹	AASHTO T-307	—	1.32	1.36	1.41
Initial Tensile Stiffness (0.5% Strain XMD) ²	D4595	lbs/ft kN/m	85,00 1,240	92,000 1,342	96,000 1,820
Wide Width Tensile (2% Strain XMD) ²	D4595	lbs/ft kN/m	750 10.9	1,040 15.2	1,820 26.6
Wide Width Tensile (2% Strain MD) ²	D4595	lbs/ft kN/m	700 10.2	620 9.1	500 7.3
Wide Width Tensile (5% Strain XMD) ²	D4595	lbs/ft kN/m	1,800 26.2	2,300 33.6	4,380 63.9
Wide Width Tensile (5% Strain MD) ²	D4595	lbs/ft kN/m	1,700 24.8	1,850 27	1,480 21.6
Cyclic Tensile Modulus @ 2% Permanent Strain: Jcyclic MD	D7556	lbs/ft kN/m	54,500 795	68,500 1,000	75,000 1,094
Cyclic Tensile Modulus @ 2% Permanent Strain: Jcyclic XMD	D7556	lbs/ft kN/m	68,500 1,000	76,500 1,116	121,000 1,766
Interaction Coefficient ³	D6706	—	0.9	0.9	0.92
Permittivity Under Load ⁴	D5493	sec ⁻¹	0.5	0.5	0.8
Water Flow Rate Under Load ⁴	D5493	gal/min/sf l/min/sm	35 1,425	35 1,426	60 2,445
Nominal Pore Size O ₉₅	D6767	microns	490	496	453
Nominal Pore Size O ₈₅	D6767	microns	450	448	403
Nominal Pore Size O ₆₀	D6767	microns	360	361	352
Nominal Pore Size O ₅₀	D6767	microns	320	324	328
Grab Tensile ²	D4632	lbs kN	500 x 325 2.2 x 1.4	510 x 350 2.3 x 1.6	620 x 500 2.76 x 2.23
Grab Elongation ²	D4632	%	12 x 8	12 x 8	12 x 8
CBR Puncture ²	D6241	lbs	1,800	1,800	2,000
Trapezoid Tear ²	D4533	lbs	150	150	150
Permittivity ^{2,6}	D4491	sec ⁻¹	0.9	0.9	1.0
Water Flow Rate ^{2,6}	D4491	gal/min/sf l/min/sm	75 3,056	75 3,056	75 3,056
AOS ^{5,6}	D4751	US Sieve	40	40	40