

NONWOVEN GEOTEXTILES

Protect your geomembrane materials from damage while staying compliant with your industry regulations. These nonwoven geotextiles are an industry favorite due to their cost-effective properties and consistent filtration.

Manufactured from high-quality polypropylene fibers, Layfield's nonwoven geotextiles achieve their unique properties through the interlocking fibers that are formed during the needle-punching process. Nonwovens are heat set and needle punched, which enhances their strength-to-weight ratio. Consequently, nonwoven needle-punched geotextiles not only provide excellent filtration, separation, and protection but also offer superior water flow properties for drainage and other applications.

Jan 2024		Non-Woven Geotextiles (US Values)									
	AST M	LP3.5	LP4	LP4.5	LP6	LP7	LP8	LP10	LP12	LP16	
Material Properties	Grab Tensile (lbs)	D463 2	90	100	120	160	180	205	250	300	380
	Elongation (%)	D463 2	50	50	50	50	50	50	50	50	50
	Tear (lbs)	D453 3	40	45	50	60	75	80	100	115	140
	CBR Punc (lbs)	D624 1	250	250	310	410	450	500	700	800	1025
	AOS (sieve)	D475 1	50	70	70	70	70	80	100	100	100
	Permittivity (sec ⁻¹)	D449 1	2.0	2.0	1.7	1.5	1.4	1.4	0.83	0.83	0.7
	Water Flow (gpm/ft ²)	D449 1	145	140	120	110	100	95	75	65	50
	UV (500 hrs)	D435 5	70%	70%	70%	70%	70%	70%	70%	70%	70%
	Roll Size (ft)		15 x 360	15 x 360	15 x 360	15 x 300	15 x 300	15 x 300	15 x 300	15 x 300	15 x 150
	Roll Weight ^{1,4} (lbs)		160	167	190	202	220	250	308	400	250

Note1: Typical values. All other values are minimum average roll values (MARV).

Note2: LP6, LP7, and LP8 may be 15 x 360 ft depending on inventory.

Note3: LP10 also available in 1.2 and LP12 in 1.0

Note4: This is average shipping roll weight - it's not to be used to calculate grams/m² weight of the actual material.

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Non-Woven Geotextiles (Metric Values)

	ASTM	LP3.5	LP4	LP4.5	LP6	LP7	LP8	LP10	LP12	LP16	
Material Properties	Grab Tensile (N)	D4632	401	445	533	711	800	911	1,112	1,330	1,690
	Elongation (%)	D4632	50	50	50	50	50	50	50	50	50
	Tear (N)	D4533	178	200	222	267	333	356	444	511	623
	CBR Punc (N)	D6241	1110	1110	1380	1820	2000	2220	3114	3510	4560
	AOS (microns)	D4751	250	212	212	212	212	180	150	150	150
	Permittivity (sec ⁻¹)	D4491	2.0	2.0	1.7	1.5	1.4	1.4	0.83	0.83	0.7
	Water Flow (l/min/m ²)	D4491	5,900	5,689	4,885	4,480	4,074	3,870	3,056	2,650	2,035
	UV (500 hrs)	D4355	70%	70%	70%	70%	70%	70%	70%	70%	70%
	Roll Size (m)		4.57 x 110	4.57 x 110	4.57 x 110	4.57 x 91.4	4.57 x 91.4	4.57 x 91.4	4.57 x 91.4	4.57 x 91.4	4.57 x 45.7
	Roll Weight ^{1.4} (kg)		73	78	86	92	99	113	140	181	112

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