

WOVEN GEOTEXTILES

Standard woven geotextiles are an economical range of geotextiles that combine high strength with low cost. Made by weaving pre-stressed polypropylene tapes in a simple weave pattern, woven geotextiles provide separation, confinement, and reinforcement. Woven geotextiles are primarily used in road building and embankment construction as a separation layer between fill soils and a site's soft subsoils.

April 2023		Woven Geotextiles – US Values			
Material Properties		ASTM	LP 200	LP 250	LP 315
	Grab Tensile (lbs)	D4632	200	250	315
	Elongation (%)	D4632	15	15	15
	Trapezoid Tear (lbs)	D4533	75	90	120
	CBR Puncture Strength (lbs)	D6241	700	900	1000
	AOS (sieve size)	D4751	50	40	40
	Permittivity (sec-1)	D4491	0.05	0.05	0.05
	Weight (oz/yd ²) (Typical)	D5261	4.0	5.0	6.3
	UV Resistance (500 hrs)	D4355	70	70	70
	Wide Width Seam Strength (lbs/in)	D4884	66	77	91
	Roll Size (ft) Typical		17.5 x 309	17.5 x 309	17.5 x 258
	Roll Weight (lbs) (Typical)		205	215	220

Note1 - The physical properties presented in the table above are Minimum Average Roll Values or otherwise indicated.

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April 2023

Woven Geotextiles – Metric Values

	ASTM	LP 200	LP 250	LP 315
Grab Tensile (N)	D4632	889	1110	1400
Elongation (%)	D4632	15	15	15
Trapezoid Tear (N)	D4533	333	400	533
CBR Puncture Strength (N)	D6241	3115	4005	4450
AOS (Microns)	D4751	300	425	425
Permittivity (sec ⁻¹)	D4491	0.05	0.05	0.05
Weight (g/m ²) (Typical)	D5261	136	170	214
UV Resistance (500 hrs)	D4355	70	70	70
Wide Width Seam Strength (kN/m)	D4884	11.5	13.5	16.0
Roll Size (m) (Typical)		5.3 x 94	5.3 x 94	5.3 x 79
Roll Weight (kg) (Typical)		92	97.5	100

Note 1 - The physical properties provided in the table above are Minimum Average Roll Values or otherwise indicated.

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