

GEOTEX[®] 4 x 6

GEOTEX 4x6 is a structural soil reinforcement geotextile containing heavy monofilament (warp) and fibrillated (fill) yarns. The individual yarns are woven in a unique twill pattern to form a strong geotextile. These characteristics make the **GEOTEX 4x6** ideal for the construction of embankments over soft soils, steepened slopes, lagoon closures, and modular block and/or wrapped-face retaining walls. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments for normally found in soils. **GEOTEX 4x6** conforms to the property values listed below¹ which have been derived from quality control testing performed by one of SI Geosolutions' GAI-LAP accredited laboratories:

MARV²

PROPERTY	TEST METHOD	ENGLISH	METRIC
Physical			
Mass/Unit Area	ASTM D5261	15.5 oz/y ²	525 g/m
Thickness	ASTM D5199	65 mils	1.6 mm
Mechanical			
Wide Width Tensile Strength	ASTM D4595	4,800 x 7,200 lb/ft	70 x 105.1 kN/m
Wide Width Elongation	ASTM D4595	14 x 9%	14 x 9%
Wide Width Tensile @ 2% Strain	ASTM D4595	480 x 1,200 lb/ft	7.0 x 17.5 kN/m
Wide Width Tensile @ 5% Strain	ASTM D4595	1,200 x 2,640 lb/ft	17.5 x 38.5 kN/m
Wide Width Tensile @ 10% Strain	ASTM D4595	2,760 x 5,400 lb/ft	40.2 x 78.8 kN/m
Puncture Strength	ASTM D4833	260 lb	1155 N
Mullen Burst	ASTM D3786	1200+ psi*	8273 kPa*
Trapezoidal Tear	ASTM D4533	250 x 300 lbs	1,110 x 1335 N
Endurance			
UV Resistance	ASTM D4355	80%	80%
Hydraulic			
Apparent Opening Size (AOS)	ASTM D4751	40 US Std. Sieve	0.425 mm
Permeability	ASTM D4491	0.04 cm/sec	0.04 cm/sec
Permittivity	ASTM D4491	0.3 sec ⁻¹	0.3 sec ⁻¹
Water Flow Rate	ASTM D4491	20 gpm/ft ²	810 l/min/m ²
Roll Sizes		15.0 ft x Custom	4.57 m x Custom

NOTES:

- The property values listed above are effective 4/1/1999 and are subject to change without notice.
 - Values for machine (warp) and cross-machine (fill), respectively, under dry or saturated conditions. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.
- * Mullen Burst values are greater than the machines output

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