

GEOTEX[®] 501

GEOTEX 501 is a polypropylene, staple fiber, needlepunched nonwoven geotextile manufactured at one of SI Geosolutions' facilities that has achieved ISO-9002 certification for its systematic approach to quality. The fibers are needed to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils. **GEOTEX 501** 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
<i>Mechanical</i>			
Grab Tensile Strength	ASTM D4632	150 lbs	665 N
Grab Elongation	ASTM D4632	50%	50%
Puncture Strength	ASTM D4833	85 lbs	375 N
Mullen Burst	ASTM D3786	280 psi	1930 kPa
Trapezoidal Tear	ASTM D4533	60 lbs	266 N
Wide Width Tensile	ASTM D4595	50 lb-in	8.7 Kn/m
<i>Endurance</i>			
UV Resistance	ASTM D4355	70%	70%
<i>Hydraulic</i>			
Apparent Opening Size (AOS)	ASTM D4751	70 US Std. Sieve	0.212 mm
Permittivity	ASTM D4491	1.40 sec ⁻¹	1.40 sec ⁻¹
Permeability	ASTM D4491	0.23 cm/sec	0.23 cm/sec
Water Flow Rate	ASTM D4491	115 gpm/ft ²	4685 l/min/m ²
<i>Roll Sizes</i>			
		150 in x 120 yds	3.81 m x 109.8 m
		180 in x 120 yds	4.57 m x 109.8 m

NOTES:

¹ The property values listed below are effective 9/6/00 are subject to change without notice.

² Values shown are in weaker principal direction. Minimum average roll values 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.

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