

GEOTEX® 1601

GEOTEX 1601 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 needled 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 1601** 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	15.0 oz/yd ²	509 g/m ²
Thickness	ASTM D5199	145 mils	3.7 mm
Mechanical			
Grab Tensile Strength	ASTM D4632	380 lbs	1691 N
Grab Elongation	ASTM D4632	50%	50%
Puncture Strength	ASTM D4833	240 lbs	1068 N
Mullen Burst	ASTM D3786	750 psi	5170 kPa
Trapezoidal Tear	ASTM D4533	150 lbs	668 N
Wide Width Tensile	ASTM D4595	1800 lbs/ft	26.3 kN/m
Endurance			
UV Resistance @ 500 hrs	ASTM D4355	70%	70%
Hydraulic			
Apparent Opening Size (AOS) ³	ASTM D4751	100 US Std. Sieve	0.150 mm
Permittivity	ASTM D4491	0.70 sec ⁻¹	0.70 sec ⁻¹
Permeability	ASTM D4491	0.27 cm/sec	0.27 cm/sec
Water Flow Rate	ASTM D4491	50 gpm/ft ²	2037 l/min/m ²
Roll Sizes		15 ft x 300 ft	4.6 m x 91.4 m

NOTES:

- ¹ The property values listed below are effective 12/2003 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.
- ³ Maximum average roll value. Statistically, it yields a 97.7% degree of confidence that samples taken from quality assurance testing will be below the value reported.

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