

GEOTEX® 1701

GEOTEX 1701 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 1701** 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 | 390 lbs | 1735 N |
| Grab Elongation | ASTM D4632 | 50% | 50% |
| Puncture Strength | ASTM D4833 | 250 lbs | 1110 N |
| Mullen Burst | ASTM D3786 | 800 psi | 5515 kPa |
| Trapezoidal Tear | ASTM D4533 | 155 lbs | 685 N |
| Wide Width Tensile | ASTM D4595 | 100 lb-in | 17.5 Kn/m |
| <i>Endurance</i> | | | |
| UV Resistance | ASTM D4355 | 70% | 70% |
| <i>Hydraulic</i> | | | |
| Apparent Opening Size (AOS) | 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 | 2035 l/min/m ² |
| <i>Roll Sizes</i> | | 180 in x 100 yds | 4.57 m x 91.5 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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