

# PRODUCT DATA SHEET

## GEOTEX® 4x4HF

**GEOTEX 4X4HF** is a woven polypropylene geotextile containing heavy monofilament/fibrillated yarns produced by Propex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The individual yarns are woven in a unique twill pattern to form a strong geotextile. These characteristics make **GEOTEX 4X4HF** ideal for the construction of embankments over soft soils, steepened slopes, 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 4x4HF** conforms to the property values listed below.<sup>1</sup> Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

| PROPERTY                                 | TEST METHOD | MARV <sup>2</sup>      |                             |
|--|-------------|------------------------|-----------------------------|
|  |             | ENGLISH                | METRIC                      |
| <b>Mechanical</b>                        |             |                        |                             |
| Tensile Strength (Grab)                  | ASTM D-4632 | 475 x 440 lbs          | 2113 x 1957 N               |
| Elongation                               | ASTM D-4632 | 12 x 6%                | 12 x 6%                     |
| Wide Width Tensile                       | ASTM D-4595 | 4800 x 4800 lbs/ft     | 70 x 70 kN/m                |
| Wide Width Elongation                    | ASTM D-4595 | 9 x 9%                 | 9 x 9%                      |
| Wide Width Tensile Strength at 5% Strain | ASTM D-4595 | 2400 x 2600 lbs/ft     | 35.0 x 38.0 kN/m            |
| Puncture                                 | ASTM D-4833 | 195 lbs                | 867 N                       |
| Mullen Burst                             | ASTM D-3786 | 1200 psi               | 8270 kPa                    |
| Trapezoidal Tear                         | ASTM D-4533 | 180 x 180 lbs          | 801 x 801 N                 |
| <b>Endurance</b>                         |             |                        |                             |
| UV Resistance<br>% Retained at 500 hrs   | ASTM D-4355 | 80%                    | 80%                         |
| <b>Hydraulic</b>                         |             |                        |                             |
| Apparent Opening Size (AOS) <sup>3</sup> | ASTM D-4751 | 30 US Std. Sieve       | 0.600 mm                    |
| Permittivity                             | ASTM D-4491 | 0.40 sec <sup>-1</sup> | 0.40 sec <sup>-1</sup>      |
| Water Flow Rate                          | ASTM D-4491 | 30 gpm/ft <sup>2</sup> | 1222.2 l/min/m <sup>2</sup> |
| <b>Roll Sizes</b>                        |             | 15 ft x 300 ft         | 4.57 m x 91.5 m             |

### NOTES:

- The property values listed above are effective 09/2008 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.
- Maximum average roll value.



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