



**GEOTEX 3X3HF** 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. These characteristics make **GEOTEX 3X3HF** 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 normally found in soils.

**GEOTEX 3X3HF** 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). This product is NTPEP approved for AASHTO standards.

MARV<sup>2</sup>

PROPERTY	TEST METHOD	ENGLISH	METRIC
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**ORIGIN OF MATERIALS**

% U.S. Manufactured Inputs		100%	100%
% U.S. Manufactured		100%	100%

**MECHANICAL**

Wide Width Tensile	ASTM D-4595	3600 x 3600 lbs/ft	52.6 x 52.6 kN/m
Wide Width Elongation	ASTM D-4595	10 x 5%	10 x 5%
Wide Width Tensile at 2% Strain	ASTM D-4595	480 x 420 lbs/ft	7.0 x 6.1 kN/m
Wide Width Tensile at 5% Strain	ASTM D-4595	1500 x 1560 lbs/ft	21.9 x 22.8 kN/m
Wide Width Tensile at 10% Strain	ASTM D-4595	3180 x 3480 lbs/ft	46.4 x 50.8 kN/m
CBR Puncture	ASTM D-6241	1600 lbs	7120 N
Trapezoidal Tear	ASTM D-4533	170 x 125 lbs	756 x 556 N

**ENDURANCE**

UV Resistance % Retained at 500 hrs	ASTM D-4355	80%	80%
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**HYDRAULIC**

Apparent Opening Size (AOS) <sup>3</sup>	ASTM D-4751	30 US Std. Sieve	0.600 mm
Permittivity	ASTM D-4491	0.52 sec <sup>-1</sup>	0.52 sec <sup>-1</sup>
Water Flow Rate	ASTM D-4491	40 gpm/ft <sup>2</sup>	1629.8 lpm/m <sup>2</sup>

ROLL SIZES	12.5 ft x 360 ft 15.0 ft x 300 ft	3.81 m x 109.8 m 4.57 m x 91.5 m
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**NOTES:**

- The property values listed above are effective 04/2011 and are subject to change without notice.
- Values shown are in weaker principal direction. 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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simplifying complexity

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