



GEOTEX<sup>®</sup> 4X4HF is a woven polypropylene geotextile containing heavy woven serrated/serrated 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<sup>®</sup> 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 normally found in soils.

GEOTEX<sup>®</sup> 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>ORIGIN OF MATERIALS</b>			
% U.S. Manufactured		100%	100%
<b>MECHANICAL</b>			
Wide Width Tensile	ASTM D-4595	4800 x 4800 lbs/ft	70.1 x 70.1 kN/m
Wide Width Elongation	ASTM D-4595	9 x 9 %	9 x 9 %
Wide Width Tensile at 2% Strain	ASTM D-4595	960 x 1320 lbs/ft	14 x 19.3 kN/m
Wide Width Tensile at 5% Strain	ASTM D-4595	2400 x 2700 lbs/ft	35 x 39.4 kN/m
CBR Puncture	ASTM D-6241	2000 lbs	8896 N
Trapezoidal Tear	ASTM D-4533	180 x 180 lbs	801 x 801 N
<b>ENDURANCE</b>			
UV Resistance 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 l/min/m <sup>2</sup>
<b>ROLL SIZES</b>		15.0 ft x 300 ft	4.6 m x 91.5 m

**NOTES:**

1. The property values listed above are effective 07/13/2015 and are subject to change without notice.
2. 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.
3. Maximum average roll value.



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