



GEOTEX<sup>®</sup> 3X3HF is a woven polypropylene geotextile containing heavy woven 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<sup>®</sup> 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<sup>®</sup> 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).

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	3600 x 3240 lbs/ft	52.5 x 47.3 kN/m
Wide Width Elongation	ASTM D-4595	10 x 5 %	10 x 5 %
Wide Width Tensile at 2% Strain	ASTM D-4595	540 x 540 lbs/ft	7.9 x 7.9 kN/m
Wide Width Tensile at 5% Strain	ASTM D-4595	1500 x 1560 lbs/ft	21.9 x 22.8 kN/m
CBR Puncture	ASTM D-6241	1300 lbs	5783 N
Trapezoidal Tear	ASTM D-4533	150 x 160 lbs	667 x 712 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	40 US Std. Sieve	0.425 mm
Permittivity	ASTM D-4491	0.90 sec <sup>-1</sup>	0.90 sec <sup>-1</sup>
Water Flow Rate	ASTM D-4491	40 gpm/ft <sup>2</sup>	1630 l/min/m <sup>2</sup>
<b>ROLL SIZES</b>		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

**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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