



GEOTEX 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 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.¹ Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

MARV²

PROPERTY	TEST METHOD	ENGLISH	METRIC
ORIGIN OF MATERIALS			
% U.S. Manufactured Inputs		100%	100%
% U.S. Manufactured		100%	100%
MECHANICAL			
Tensile Strength (Grab)	ASTM D-4632	475 x 440 lbs	2114 x 1958 N
Elongation	ASTM D-4632	15%	15%
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%	9%
Wide Width Tensile at 2% Strain	ASTM D-4595	600 x 840 lbs/ft	8.8 x 12.3 kN/m
Wide Width Tensile at 5% Strain	ASTM D-4595	2400 x 2700 lbs/ft	35.0 x 39.4 kN/m
Wide Width Tensile at 10% Strain	ASTM D-4595	4800 x 3840 lbs/ft	70.1 x 56.1 kN/m
CBR Puncture	ASTM D-6241	2200 lbs	9790 N
Trapezoidal Tear	ASTM D-4533	200 lbs	890 N
ENDURANCE			
UV Resistance % Retained at 500 hrs	ASTM D-4355	80%	80%
HYDRAULIC			
Apparent Opening Size (AOS) ³	ASTM D-4751	30 US Std. Sieve	0.600 mm
Permittivity	ASTM D-4491	0.40 sec ⁻¹	0.40 sec ⁻¹
Water Flow Rate	ASTM D-4491	30 gpm/ft ²	1222 lpm/m ²
ROLL SIZES		15.0 ft x 300 ft	4.6 m x 91.5 m

NOTES:

1. The property values listed above are effective 04/2011 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.

