

# 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	450 x 410 lbs	2000 x 1820 N
Elongation	ASTM D-4632	15 x 15%	15 x 15%
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	1929 x 2508 lbs/ft	28.2 x 36.6 kN/m
Puncture	ASTM D-4833	200 lbs	890 N
Mullen Burst	ASTM D-3786	1200 psi	8270 kPa
Trapezoidal Tear	ASTM D-4533	225 x 225 lbs	1000 x 1000 N
<b>Endurance</b>			
UV Resistance	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	0.60 sec <sup>-1</sup>	0.60 sec <sup>-1</sup>
Water Flow Rate	ASTM D-4491	45 gpm/ft <sup>2</sup>	1830 l/min/m <sup>2</sup>
<b>Roll Sizes</b>		15 ft x 300 ft	4.57 m x 91.5 m

#### NOTES:

1. The property values listed above are effective 08/2006 and are subject to change without notice.
2. 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.
3. Maximum average roll value.



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