

# PRODUCT DATA SHEET

## GEOTEX® 6x1

**GEOTEX 6x1** is a structural soil reinforcement geotextile containing high tenacity polyester multifilament (warp) and polypropylene slit tape yarns (fill) 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 in Geotex 6x1 are woven to form a strong geotextile. These characteristics make the **GEOTEX 6x1** ideal for the construction of 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 6x1** 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	650 lbs	2890 N
Wide Width Tensile	ASTM D-4595	7200 lbs/ft	105.1 kN/m
Wide Width Elongation	ASTM D-4595	9%	9%
Wide Width Tensile Strength at 5% Strain	ASTM D-4595	3000 lbs/ft	43.7 kN/m
Long-term Design Strength (LTDS)	GRI-GT7	3415 lbs/ft	49.8 kN/m
Puncture	ASTM D-4833	90 lbs	400 N
Trapezoidal Tear	ASTM D-4533	250 lbs	1110 N
<b>Endurance</b>			
UV Resistance % Retained at 500 hrs	ASTM D-4355	N/A	N/A
<b>Hydraulic</b>			
Apparent Opening Size (AOS) <sup>3</sup>	ASTM D-4751	30 US Std. Sieve	0.600 mm
Permittivity	ASTM D-4491	0.03 sec <sup>-1</sup>	0.03 sec <sup>-1</sup>
Water Flow Rate	ASTM D-4491	2 gpm/ft <sup>2</sup>	80 l/min/m <sup>2</sup>
<b>Roll Sizes</b>		7.5 ft x 300 ft	2.29 m x 91.5 m

#### NOTES:

1. The property values listed above are effective 09/2008 and are subject to change without notice.
2. Values reported in machine (warp) 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.



THE ADVANTAGE CREATORS.™

Propex Inc.  
6025 Lee Highway, Suite 425  
PO Box 22788  
Chattanooga, TN 37422

PH: 423 899 0444  
PH: 800 621 1273  
FAX: 423 899 7619  
www.geotextile.com

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