



**GEOTEX**<sup>®</sup> 12x1 is a structural soil reinforcement geotextile containing high tenacity polyester multifilament (warp) and polypropylene silt 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 are woven to form a strong geotextile. These characteristics make the **GEOTEX 12x1** 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 normally found in soils.

**GEOTEX 12x1** 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). This product is NTPEP approved.

		MARV <sup>2</sup>	
PROPERTY	TEST METHOD	ENGLISH	METRIC
<b>ORIGIN OF MATERIALS</b>			
% U.S. Manufactured Inputs		100%	100%
% U.S. Manufactured		100%	100%
<b>MECHANICAL</b>			
Wide Width Tensile	ASTM D-4595	14400 lbs/ft	210.2 kN/m
Wide Width Elongation	ASTM D-4595	11%	11%
Wide Width Tensile Strength at 5% Strain	ASTM D-4595	6000 lbs/ft	87.6 kN/m
Long-term Design Strength (LTDS)	GRI-GT7	7685 lbs/ft	112.2 kN/m
Trapezoidal Tear	ASTM D-4533	400 lbs	1780 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>	81 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 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.



**GEOTEXTILE  
SYSTEMS**  
BY PROPEX

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