



**GEOTEX 111F** is a woven polypropylene geotextile produced by Propex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The individual filaments are woven into a regular network such that filaments retain dimensional stability relative to each other. These characteristics make **GEOTEX 111F** ideal for filtration beneath hard armor systems and around leachate collection pipes. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

**GEOTEX 111F** 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).

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>			
Tensile Strength (Grab)	ASTM D-4632	370 x 220 lbs	1646 x 979 N
Elongation	ASTM D-4632	20 x 15%	20 x 15%
CBR Puncture	ASTM D-6241	1250 lbs	5563 N
Trapezoidal Tear	ASTM D-4533	115 x 75 lbs	511 x 334 N
<b>ENDURANCE</b>			
UV Resistance % Retained at 500 hrs	ASTM D-4355	90%	90%
<b>HYDRAULIC</b>			
Apparent Opening Size (AOS) <sup>3</sup>	ASTM D-4751	30 US Std. Sieve	0.600 mm
Percent Open Area	CW-02215 MOD. 4	8%	8%
Permittivity	ASTM D-4491	1.50 sec <sup>-1</sup>	1.50 sec <sup>-1</sup>
Water Flow Rate	ASTM D-4491	115 gpm/ft <sup>2</sup>	4,685.6 lpm/m <sup>2</sup>
<b>ROLL SIZES</b>		12.5 ft x 300 ft	3.81 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.
4. Army Corp of Engineers test method correlated to light emitted through fabric. (Area of Openings/Total Area X 100%)



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