



GEOTEX[®] 111F is a woven monofilament polypropylene geotextile 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 and calendared such that the filaments retain dimensional stability relative to each other. These characteristics make GEOTEX[®] 111F ideal for filtration applications beneath hard armor systems. 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 below¹. 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 tested for AASHTO standards.

PROPERTY	TEST METHOD	MARV ²	
		ENGLISH	METRIC
ORIGIN OF MATERIALS			
% U.S. Manufactured		100%	100%
MECHANICAL			
Grab Tensile Strength	ASTM D-4632	365 x 200 lbs	1624 x 890 N
Grab Elongation	ASTM D-4632	24 x 10 %	24 x 10 %
CBR Puncture	ASTM D-6241	675 lbs	3003 N
Trapezoidal Tear	ASTM D-4533	115 x 75 lbs	512 x 334 N
ENDURANCE			
UV Resistance at 500 hrs	ASTM D-4355	90%	90%
HYDRAULIC			
Apparent Opening Size (AOS) ³	ASTM D-4751	40 US Std. Sieve	0.425 mm
Percent Open Area	CW-02215 MOD. ⁴	10%	10%
Permittivity	ASTM D-4491	2.10 sec ⁻¹	2.10 sec ⁻¹
Water Flow Rate	ASTM D-4491	145 gpm/ft ²	5908 l/min/m ²
ROLL SIZES⁵		12.5 ft x 300 ft	3.81 m x 91.5 m

NOTES:

- The property values listed above are effective 12/17/2018 and are subject to change without notice.
- 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. Values represent testing at time of manufacture.
- Maximum average roll value.
4. Army Corp of Engineers test method correlated to light emitted through fabric. (Area of Openings/Total Area X 100%)
- Contact your local Territory Business Manager (TBM) for custom widths and colors. Lead times may vary depending on customer requirements and volume requested.



ENGINEERED EARTH SOLUTIONS[™]

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