

PRODUCT DATA SHEET

GEOTEX® 111F

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.¹ 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 ²	
		ENGLISH	METRIC
Mechanical			
Tensile Strength (Grab)	ASTM D-4632	370 x 220 lbs	1645 x 980 N
Elongation	ASTM D-4632	20 x 15 %	20 x 15 %
Puncture	ASTM D-4833	115 lbs	510 N
CBR Puncture	ASTM D-6241	850 lbs	3780 N
Mullen Burst	ASTM D-3786	470 psi	3240 kPa
Trapezoidal Tear	ASTM D-4533	115 x 75 lbs	510 x 335 N
Endurance			
UV Resistance % Retained at 500 hrs	ASTM D-4355	90%	90%
Hydraulic			
Apparent Opening Size (AOS) ³	ASTM D-4751	30 US Std. Sieve	0.600 mm
Percent Open Area (POA)	CW-02215 Mod. ⁴	8 %	8 %
Permittivity	ASTM D-4491	1.50 sec ⁻¹	1.50 sec ⁻¹
Water Flow Rate	ASTM D-4491	115 gpm/ft ²	4,685.1 l/min/m ²
Roll Sizes		12 ft x 300 ft	3.65 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 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.
4. Army Corp of Engineers test method correlated to light emitted through fabric. (Area of Openings/Total Area X 100%)



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