GEOTEX® Woven

Product Data

GEOTEX® 111F

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 below[1]. 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.

		MARV[2]	
PROPERTY	TEST METHOD	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 SIZES[5]		12.5 ft x 300 ft	3.81 m x 91.5 m

NOTES:

1. The property values listed above are effective 12/17/2018 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. Values represent testing at time of manufacture.
3. Maximum average roll value.
4. 4. Army Corp of Engineers test method correlated to light emitted through fabric. (Area of Openings/Total Area X 100%)
5. Contact your local Territory Business Manager (TBM) for custom widths and colors. Lead times may vary depending on customer requirements and volume requested.

Propex® GEOSOLUTIONS

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