



ADS GEOSYNTHETICS 117F WOVEN GEOTEXTILE

Scope

This specification describes ADS Geosynthetics 117F woven geotextile.

Filter Fabric Requirements

ADS Geosynthetics 117F is a woven 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 such that filaments retain dimensional stability relative to each other. These characteristics make ADS Geosynthetics 117F 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 for normally found in soils. ¹ The manufacturer performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). ADS Geosynthetics 117F conforms to the property values listed below:

Filter Fabric Properties

PROPERTY	TEST METHOD	MARV ²	
		ENGLISH	METRIC
Mechanical			
Tensile Strength (Grab)	ASTM D-4632	255 x 275 lbs	1130 x 1220 N
Elongation	ASTM D-4632	20 x 15 %	20 x 15 %
Puncture	ASTM D-4833	135 lbs	600 N
Mullen Burst	ASTM D-3786	420 psi	2890 kPa
Trapezoidal Tear	ASTM D-4533	40 x 50 lbs	175 x 220 N
Endurance			
UV Resistance	ASTM D-4355	90%	90%
Hydraulic			
Apparent Opening Size (AOS) ³	ASTM D-4751	20 US Std. Sieve	0.850 mm
Percent Open Area (POA)	CW-02215 Mod. ⁴	20%	20%
Permittivity	ASTM D-4491	1.50 sec ⁻¹	1.50 sec ⁻¹
Water Flow Rate	ASTM D-4491	200 gpm/ft ²	8,145 l/min/m ²
Roll Sizes		12 ft x 300 ft	3.65 m x 91.44 m

NOTES:

1. The property values listed above are effective 08/2006 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%)