



Erosion Protection



Filtration



Separation

ADS 117F WOVEN GEOTEXTILE SPECIFICATION

Scope

This specification describes ADS 117F woven geotextile.

Filter Fabric Requirements

ADS 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 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 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 117F conforms to the physical property values listed below:

Filter Fabric Properties

Property	Test Method	Unit	M.A.R.V. (Minimum Average Roll Value) ²
Mechanical Properties			
Tensile Strength (Grab)	ASTM D4632	lbs (N)	255 x 275 (1130 x 1220)
Elongation	ASTM D4632	%	20 x 15
Puncture	ASTM D4833	lbs (N)	135 (600)
Mullen Burst	ASTM D3786	psi (kPa)	420 (2890)
Trapezoidal Tear	ASTM D4533	lbs (N)	40 x 50 (175 x 220)
Endurance			
UV Resistance (at 500 hours)	ASTM D4355	%	90
Hydraulic			
Apparent Opening Size (AOS) ³	ASTM D4751	U.S. Std. Sieve (mm)	20 (.850)
Percent Open Area (POA)	CW-02215 Mod. ⁴	%	20
Permittivity	ASTM D4491	sec ⁻¹	1.5
Water Flow Rate	ASTM D4491	gpm/ft ² (l/min/m ²)	200 (8145)

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 Corps of Engineers test method correlated to light emitted through fabric. (Area of Openings/Total Area x 100%)

Packaging

Roll Dimensions (W x L) - ft. (m)	12 x 300 (3.65 x 91.5)
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