



Vegetated Retaining Walls from Agrecol®

BAG MATERIAL DATA SHEET

Product Description: A polypropylene, staple fiber, needle-punched non-woven geotextile. The fibers are needed to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments not normally found in soils. It conforms to the property values listed below which have been derived from quality control testing.

MARV²

PROPERTY	TEST METHOD	ENGLISH	METRIC
<i>Physical</i>			
Mass/Unit Area	ASTM D5261	3.5 oz/yd ²	119 g/m ²
Thickness	ASTM D5199	50 mils	1.3 mm
<i>Mechanical</i>			
Grab Tensile Strength	ASTM D4632	115 lbs	512 N
Grab Elongation	ASTM D4632	50%	50%
Puncture Strength	ASTM D4833	65 lbs	289 N
Mullen Burst	ASTM D3786	210 psi	1448 kPa
Trapezoidal Tear	ASTM D4533	50 lbs	222 N
Wide Width Tensile	ASTM D4595	480 lbs/ft	7.0 kN/m
<i>Endurance</i>			
UV Resistance @ 500 hrs	ASTM D4355	70%	70%
<i>Hydraulic</i>			
Apparent Opening Size (AOS) ³	ASTM D4751	70 US Std. Sieve	0.212 mm
Permittivity	ASTM D4491	2.00 sec ⁻¹	2.00 sec ⁻¹
Permeability	ASTM D4491	0.22 cm/sec	0.22 cm/sec
Water Flow Rate	ASTM D4491	140 gpm/ft ²	5704 l/min/m ²

NOTES:

- ¹ The property values listed below are effective 12/2003 are subject to change without notice.
- ² Values shown are in weaker principal direction. Minimum average roll values 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. Statistically, it yields a 97.7% degree of confidence that samples taken from QA testing will be below the value reported.