

Envirolok® Technical Specification – Bag

The Envirolok bag is a nonwoven geotextile produced by needle-punching together 100% synthetic staple fibres, in a random network, forming a high strength, dimensionally stable fabric. The synthetic fibres are specially formulated to resist ultraviolet light deterioration, and are inert to commonly encountered soil chemicals. The fabric will not rot or mildew, is non biodegradable, and is resistant to damage from insects and rodents. The synthetic fibre is stable within a pH range of 2 to 13, making it one of the most stable polymers available for geotextiles today.

The Envirolok bag meets the following Minimum Average Roll Values (MARV):

Properties	Test Method	Unit	MARV
Physical			
Weight	ASTM D 5261	Oz/yd ²	4.0 (typ)
Grab Tensile	ASTM D 4632	lbs	115 (.512kN)
Grab Elongation	ASTM D 4632	%	50
Puncture Strength	ASTM D 4833	lbs	65 (.289kN)
Mullen Burst	ASTM D 3786	psi	210 (1448kPa)
Trapezoidal Tear	ASTM D 4533	lbs	45 (.202kN)
CBR Puncture Resistance	ASTM D 6241	lbs	310 (1.379kN)
UV Resistance after 500	ASTM D 4355	% strength retained	70
Hydraulic			
Permittivity ¹	ASTM D 4491	Sec-1	2
Water Flow Rate ¹	ASTM D 4491	Gpm/ft ²	140 (5700l/min/m ²)
Apparent Opening Size ²	ASTM D 4751	U.S. Sieve	70 (.212mm)

¹. Handling at the time of manufacturing may change these properties.

². Apparent Opening Size, (AOS), reported as Maximum Average Roll Value.