Atlantic Industries Limited

Technical Data Sheet

AIL6N Non-Woven Geotextile

AIL6N is a nonwoven geotextile produced by needle punching 100% synthetic staple fibers in a random network to form a dimensionally stable fabric. The synthetic fibers 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. **AIL6N** meets AASHTO M288 Survivability Class 2 and conforms to the physical property values listed below:

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
Grab Tensile Strength	ASTM D4632	lbs (N)	160 (711)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	60 (267)
CBR Puncture Strength	ASTM D6241	lbs (N)	400 (1780)
			MINIMUM ROLL VALUE
Flow Rate	ASTM D4491	gal/min/ft^2 (l/min/m^2)	110 (4481)
Permittivity	ASTM D4491	sec^{-1}	1.5
			MAXIMUM OPENING SIZE
Apparent Opening Size (AOS)	ASTM D4751	US Sieve (mm)	70 (0.212)
			MINIMUM TEST VALUE
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

PHYSICAL PROPERTIES	UNIT	ROLL SIZE
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.57 x 91.44)
Roll Area	yd^2 (m^2)	500 (418)
Roll Weight	lbs (kg)	210 (98)