



AIL90 High-Performance Woven Geotextile



AIL90 geotextile is composed of high-tenacity polypropylene yarns, which are woven into a network such that the yarns retain their relative position. AIL90 geotextile is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE	
			MD	CD
Tensile Strength (at ultimate)	ASTM D4595	lbs/ft (kN/m)	2640 (38.5)	2460 (35.9)
Tensile Strength (at 2% strain)	ASTM D4595	lbs/ft (kN/m)	504 (7.4)	600 (8.8)
Tensile Strength (at 5% strain)	ASTM D4595	lbs/ft (kN/m)	1272 (18.6)	1440 (21.0)
			MINIMUM ROLL VALUE	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	40 (1630)	
Permittivity	ASTM D4491	sec ⁻¹	0.6	
			MAXIMUM OPENING SIZE	
Apparent Opening Size (AOS)	ASTM D4751	US Sieve (mm)	30 (0.60)	
			TYPICAL TEST VALUE	
Pore Size O ₉₅ ¹	ASTM D6767	microns	386	
Pore Size O ₁₀ ¹	ASTM D6767	microns	294	
			MINIMUM TEST VALUE	
Coefficient of Interation (C) ^{1,2}	ASTM D6706	-	0.85	
Factory Sewn Seam	ASTM D4884	lbs/ft (kN/m)	1260 (18.4)	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80	

¹ Based on Third Party Testing

² Interaction Coefficient value is for sand or gravel based

PHYSICAL PROPERTIES	UNIT	ROLL SIZE
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.57 x 91.4)
Roll Area	yd ² (m ²)	500 (418)

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