



Mirafi® S1000

Mirafi® S1000 is a needlepunched nonwoven pervious geotextile composed of at least 95% by weight of long-chain polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S1000 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi® S1000 is used in a wide variety of applications: separation, drainage, filtration and protection of geomembrane liners.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	270 (1202)	270 (1202)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D6241	lbs (N)	105 (467)	105 (467)
CBR Puncture Strength	ASTM D6241	lbs (N)	725 (3226)	
Transmissivity	ASTM D6574	ft ² /m	2.26 x 10 ⁻³	
Weight	ASTM D5261	oz/yd ² (g/m ²)	10.0 (339)	
Thickness	ASTM D5199	mils (mm)	115 (2.9)	
			MINIMUM ROLL VALUE	
Permittivity	ASTM D4491	sec-1	1.2	
Permeability	ASTM D4491	cm/sec	0.32	
Transmissivity	ASTM D6574	ft ² /m	2.26 x 10 ⁻³	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	85 (3463)	
			MAXIMUM OPENING SIZE	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)	
			MINIMUM TEST VALUE	
UV Resistance (@ 500 hrs)	ASTM D4355	% strength retained	80	
PHYSICAL PROPERTIES		UNIT	TYPICAL ROLL VALUE	
Roll Dimensions (width x length)		Ft (m)	15 x 300 (4.5 x 91)	
Roll Area		yd ² (m ²)	500 (418)	
Roll Weight		lb (kg)	328 (149)	

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