

# MIRAFI S-Series

## Nonwoven geotextiles designed for protection, drainage and filtration

**MIRAFI®** S-Series nonwoven geotextiles are used for protection and cushioning in environmental, mining and energy infrastructure applications. They provide exceptional durability and high puncture resistance, transmissivity and permittivity. They are manufactured to minimum weight and thickness properties.



**MIRAFI S-Series nonwovens are engineered for high-performance subsurface drainage, soil separation, permanent erosion control, and in landfill construction.**

### Applications

- ☑ Landfill & pond capping
- ☑ Landfill liner systems
- ☑ Storage ponds & impoundments
- ☑ Pipeline protection
- ☑ Railway construction & ballast stabilization

### Primary functions

- Protection
- Filtration
- Drainage
- Separation

### Proven Performance

- Provide cushioning and protection to various materials including geomembranes, pipes and other construction assets.
- High permittivity properties provide high water flow rates and excellent soil retention.
- Chemically stable for performance in a wide range of aggressive environments.

# MIRAFI S-Series

PROPERTY	TEST METHOD	UNIT	S600	S800	S1000	S1200	S1600
<b>MECHANICAL PROPERTIES</b>							
Weight	ASTM D5261	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	6 (203)	8 (271)	10 (339)	12 (407)	16 (542)
Thickness	ASTM D5199	mils (mm)	80 (2.0)	90 (2.3)	110 (2.8)	120 (3.1)	165 (4.2)
Grab Tensile Strength	ASTM D4632	lbs (N)	170 (757)	230 (1024)	270 (1202)	320 (1424)	425 (1891)
Grab Tensile Elongation	ASTM D4632	%	50	50	50	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	70 (312)	95 (423)	105 (467)	125 (556)	155 (690)
CBR Puncture Strength	ASTM D6241	lbs (N)	450 (2003)	600 (2670)	725 (3226)	900 (4005)	1200 (5340)
UV Resistance after 500 hrs.	ASTM D4355	% strength	80	80	80	80	80
<b>HYDRAULIC PROPERTIES</b>							
Apparent Opening Size (AOS)	ASTM D4751	US Sieve (mm)	80 (0.18)	100 (0.15)	100 (0.15)	100 (0.15)	100 (0.15)
Permittivity	ASTM D4491	sec <sup>-1</sup>	1.5	1.4	1.2	0.9	0.7
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	110 (4481)	110 (4481)	85 (3463)	65 (2648)	50 (2037)
<b>PACKAGING</b>							
Roll Width		ft (m)	15 (4.5)	15 (4.5)	15 (4.5)	15 (4.5)	15 (4.5)
Roll Length		ft (m)	300 (91)	300 (91)	300 (91)	300 (91)	300 (91)
Area		yd <sup>2</sup> (m <sup>2</sup> )	500 (418)	500 (418)	500 (418)	500 (418)	500 (418)

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