



## **Mirafi® NON-WOVEN GEOTEXTILES** **Nonwoven Geotextile Filter Fabric**

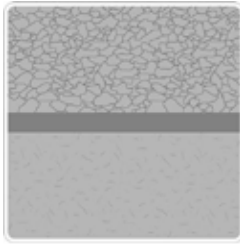
Mirafi® nonwoven geotextiles are the ideal solution for your landscaping, drainage, soil separation, erosion, and permanent sediment control needs. Our filter fabrics are rot-resistant, needle-punched fabrics, giving you high permittivity and water flow rates. We offer a wide range of Mirafi® nonwovens, available in light to heavy weights. We have what you need to fit your project, budget and specific locations.



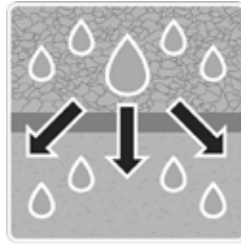
# Mirafi® FILTER FABRIC

## Nonwovens Geotextiles

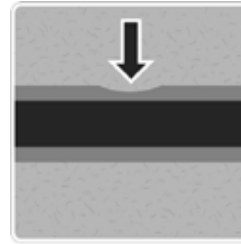
Mirafi® nonwoven geotextiles are an important part of systems and structures including rocks, soils, and any other geo-technical engineering projects. Our nonwoven filter fabrics are mechanically bound to produce planar, permeable textile structures. All of the options we offer are made with 100% polypropylene fibers, which are tear and puncture resistant. They ensure your project has not only high flow rates for filtration, but also consistent soil interaction. Mirafi filter fabric can be used for soil separation and drainage; transportation, water structure and building sites; or as liner protection in fracking ponds, water retention, and solid waste landfills. See our options below to find the right nonwoven filter fabric for your project needs.



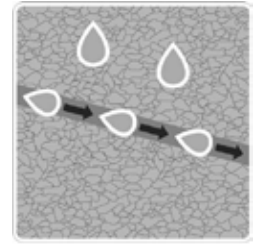
SEPARATION



FILTRATION



PROTECTION



DRAINAGE

### Non Woven Geotextile Features

- 100% Polypropylene Fibers
- High water flow rates and soil interaction
- Needle-Punched Design
- Tear and Puncture resistance
- High transmissivity and permittivity
- Rot-Resistant Fabric

### Non Woven Geotextile Benefits

- Durable Construction and Design
- Filtration and Drainage Applications
- Conforms to Ground or Trench Surface
- Chemically Stable in a Variety Environments
- Multiple Strengths

We offer three different types of Mirafi® nonwoven filter fabrics, ranging from light to heavy weights with a variety of tensile strengths. The [Mirafi® Mscape](#) is our lighter weight nonwoven for landscaping and weed control. [Mirafi® N- Series](#), our medium weight, is used for drainage and soil separation. Our heaviest weight is the [Mirafi® S Series](#) for subsurface drainage systems and permanent erosion control. Find out more about each of our different filter fabrics below.



# Mirafi® FILTER FABRIC

## Nonwovens Geotextiles

### Mirafi® MSCAPE

Our lightest filter fabric is Mirafi® Mscape nonwoven geotextile. This lightweight landscape fabric is primarily used for soil separation and drainage. Designed to be more permeable, it has a higher water flow rate than heavier fabrics. This geo-textile can withstand environmental problems found in golf courses, parks, and sports park construction projects. Mirafi® Mscape is especially successful at inhibiting existing weed growth, as well as suppressing any new weed growth. This is the perfect filter fabric for landscaping because it creates a path for air and liquids. An added benefit is this drainage fabric is easy to cut to fit any shape with simple kitchen scissors. Our lightweight, landscaping fabric is used in drainage, filtering applications, landscaping, and asphalt overlay.



### Mirafi® MSCAPE Specifications

Property	Test Method	Unit	Typical Values
Mass/Unit Area	ASTM D5261	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	3.5 (119)
Grab Tensile Strength	ASTM D4632	lbs (N)	90 (401)
Trapezoid Tear Strength	ASTM D4533	lbs (N)	30 (134)
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	135 (5500)
UV Resistance after 500 hours	ASTM D4355	% strength retained	70
Thickness	ASTM D5199	mil (mm)	25 (.6)

Roll Dimensions	Roll Weight	Roll Area
WIDTH X LENGTH ft x ft (m x m)	lbs (kg)	lbs (kg)
3 x 300 (0.9 x 91.4)	24 (11)	100 (84)
6 x 300 (1.8 x 91.4)	48 (22)	200 (167)
9 x 300 (2.7 x 91.4)	72 (33)	300 (251)



# Mirafi® FILTER FABRIC

## Nonwovens Geotextiles

### Mirafi® N-Series

Mirafi® N-Series is our mid-weight nonwoven, utilized in transportation, building site, and water infrastructure projects for soil separation and drainage. With excellent water flow rates, high soil interaction and durability, the N-Series filter fabric allows superior soil particle retention. Its flexible construction allows our N-Series to easily conform to ground or trench surfaces, ensuring an easier installation. Because of its chemical stability in aggressive environments, this drainage fabric is the perfect solution for permanent erosion control, subsurface drainage, and roadway separation projects.



### Mirafi® N-Series Specifications

MECHANICAL PROPERTIES	TEST METHOD	UNIT	140NL	140NC	140N	160N	170N	180N	1100N	1120N	1160N
Grab Tensile Strength:	<b>MINIMUM AVERAGE ROLL VALUE</b>										
Strength	ASTM D4632	lbs (N)	90 (401)	100 (445)	120 (534)	160 (712)	180 (801)	205 (912)	250 (1113)	300 (1335)	380 (1691)
Elongation	ASTM D4632	%	50	50	50	50	50	50	50	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	40 (178)	45 (200)	50 (223)	60 (267)	75 (334)	80 (356)	100 (445)	115 (512)	140 (623)
CBR Puncture Strength	ASTM D6241	lbs (N)	250 (1113)	250 (1113)	310 (1380)	410 (1825)	450 (2003)	500 (2224)	700 (3115)	800 (3560)	1025 (4561)
<b>HYDRAULIC PROPERTIES</b>	<b>MAXIMUM OPENING SIZE</b>										
Apparent Opening Size	ASTM D4751	US Sieve (mm)	50 (0.30)	70 (0.212)	70 (0.212)	70 (0.212)	70 (0.212)	80 (0.18)	100 (0.15)	100 (0.15)	100 (0.15)
	<b>MINIMUM ROLL VALUE</b>										
Permittivity	ASTM D4491	sec-l	2.0	2.0	1.7	1.5	1.4	1.4	0.8	0.8	0.7
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) sec-l	145 (5907) 2.0	140 (5704)	135 (5500)	110 (4481)	105 (4278)	95 (3870)	75 (3056)	65 (2648)	50 (2037)
UV Resistance After 500 hrs	ASTM D4355	% strength	70	70	70	70	70	70	70	70	70



# Mirafi® FILTER FABRIC

## Nonwovens Geotextiles

### Mirafi® S-Series

Mirafi® S-Series filter fabric is our heaviest filtration fabric. This nonwoven geo fabric is utilized for critical subsurface drainage systems, soil separation, permanent erosion control, and other geo-membranes in landfill construction. Our filter fabric provides exceptional durability, along with high puncture resistance, permittivity, and transmissivity. The S-Series delivers excellent strength and abrasion resistance, while withstanding installation and application stresses. Available in 6 oz. to 16 oz. weights, this filtration fabric is primarily used for collection of liquids in waste containment systems. Similar to the Mirafi® N-Series, the S-Series differs in weight and thickness.



### Mirafi® S-Series Fabric Specifications

MECHANICAL PROPERTIES	TEST METHOD	UNIT	S600	S800	S1000	S1200	S1600
Weight	ASTM D5261	oz/yd2 (g/m2 )	6 (203)	8 (271)	10 (339)	12 (407)	16 (542)
Thickness	ASTM D5199	mils (mm)	80 (2.0)	90 (2.3)	115 (2.9)	130 (3.3)	175 (4.4)
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	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

For higher strength nonwoven geotextile fabrics, we have a wide selection of options that feature increased weight, higher grab tensile strength, and more rigid fabric structures. For additional information, see our [Non Woven Geotextile Fabric Options](#).



# Mirafi® FILTER FABRIC Applications

## Mirafi® Nonwoven Geotextile Applications

Our Mirafi® nonwoven filter fabrics are used across various industries depending on the filtration and drainage needs. Our lighter weight Mirafi® Mscape is a great solution for drainage and landscaping. It is also utilized for asphalt overlay to inhibit cracking in asphalt.

Our medium weight Mirafi® N-Series is used in applications including stabilization, erosion control, and drainage projects. This filter fabric is commonly used around French drains and subsurface drains to filter out silt and allow water to pass through.

Our strongest nonwoven Mirafi® S-Series is primarily used as critical subsurface drainage, permanent erosion control and geo-membranes in landfill construction.



## Other Applications for Mirafi® Nonwovens

- Concrete Casting
- Filtration
- Erosion Control
- Padding Layer As Under-liners
- Rip Rap
- Sea Walls
- Marine Applications and More

We also have complete line of Woven Geotextiles available. Check out our [Complete Geotextile Listing](#) for information on our all erosion control solutions.

For more complete information on One Clarion products and solutions, visit us on the web at: [www.clarionmunicipal.com](http://www.clarionmunicipal.com) or call us at : (+1) 863-261-8388 | [info@oneclarion.com](mailto:info@oneclarion.com)

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