

# Mirafi<sup>®</sup> S600



Mirafi<sup>®</sup> S600 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S600 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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

| Mechanical Properties        | Test Method | Unit  | Minimum Average Roll Value  |
|------------------------------|-------------|---|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> )          | 6.0 (203)                   |
| Thickness                    | ASTM D5199  | mils (mm)                                       | 80 (2.0)                    |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)   | 170 (757)                   |
| Grab Tensile Elongation      | ASTM D4632  | %   | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)   | 70 (312)                    |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)   | 450 (2003)                  |
|                              |             |   | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                                 | 80 (0.18)                   |
|                              |             |   | <b>Minimum Roll Value</b>   |
| Permittivity                 | ASTM D4491  | sec <sup>-1</sup>                               | 1.5                         |
| Permeability                 | ASTM D4491  | cm/sec  | 0.45                        |
| Flow Rate                    | ASTM D4491  | gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) | 110 (4481)                  |
|                              |             |   | <b>Minimum Test Value</b>   |
| 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 (4.5 x 91) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 500 (418)           |

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# Mirafi<sup>®</sup> S800



Mirafi<sup>®</sup> S800 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S800 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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| Mechanical Properties        | Test Method | Unit  | Minimum Average Roll Value  |
|------------------------------|-------------|---|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> )          | 8.0 (271)                   |
| Thickness                    | ASTM D5199  | mils (mm)                                       | 90 (2.3)                    |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)   | 230 (1024)                  |
| Grab Tensile Elongation      | ASTM D4632  | %   | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)   | 95 (423)                    |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)   | 600 (2670)                  |
|                              |             |   | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                                 | 100 (0.15)                  |
|                              |             |   | <b>Minimum Roll Value</b>   |
| Permittivity                 | ASTM D4491  | sec <sup>-1</sup>                               | 1.4                         |
| Permeability                 | ASTM D4491  | cm/sec  | 0.31                        |
| Flow Rate                    | ASTM D4491  | gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) | 110 (4481)                  |
|                              |             |   | <b>Minimum Test Value</b>   |
| UV Resistance (at 500 hours) | ASTM D4355  | % strength retained                             | 80                          |

| Physical Properties              | Unit                              | Roll Value          |
|----------------------------------|-----------------------------------|---------------------|
| Roll Dimensions (width x length) | ft (m)                            | 15 x 300 (4.5 x 91) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 500 (418)           |

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# Mirafi<sup>®</sup> S1000



Mirafi<sup>®</sup> S1000 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S1000 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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| Mechanical Properties        | Test Method | Unit  | Minimum Average Roll Value  |
|------------------------------|-------------|---|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> )          | 10.0 (339)                  |
| Thickness                    | ASTM D5199  | mils (mm)                                       | 115 (2.9)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)   | 270 (1202)                  |
| Grab Tensile Elongation      | ASTM D4632  | %   | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)   | 105 (467)                   |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)   | 725 (3226)                  |
|                              |             |   | <b>Minimum Roll Value</b>   |
| Permittivity                 | ASTM D4491  | sec <sup>-1</sup>                               | 1.2                         |
| Permeability                 | ASTM D4491  | cm/sec  | 0.32                        |
| Flow Rate                    | ASTM D4491  | gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) | 85 (3463)                   |
|                              |             |   | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                                 | 100 (0.15)                  |
|                              |             |   | <b>Minimum Test Value</b>   |
| 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 (4.5 x 91) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 500 (418)           |

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# Mirafi® S1200



Mirafi® S1200 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® S1200 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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| Mechanical Properties        | Test Method | Unit  | Minimum Average Roll Value  |
|------------------------------|-------------|---|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> )          | 12.0 (407)                  |
| Thickness                    | ASTM D5199  | mils (mm)                                       | 130 (3.3)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)   | 320 (1424)                  |
| Grab Tensile Elongation      | ASTM D4632  | %   | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)   | 125 (556)                   |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)   | 900 (4005)                  |
|                              |             |   | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                                 | 100 (0.15)                  |
|                              |             |   | <b>Minimum Roll Value</b>   |
| Permittivity                 | ASTM D4491  | sec <sup>-1</sup>                               | 0.9                         |
| Permeability                 | ASTM D4491  | cm/sec  | 0.3                         |
| Flow Rate                    | ASTM D4491  | gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) | 65 (2648)                   |
|                              |             |   | <b>Minimum Test Value</b>   |
| 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 (4.5 x 91) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 500 (418)           |

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# Mirafi<sup>®</sup> S1400



Mirafi<sup>®</sup> S1400 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S1400 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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| Mechanical Properties        | Test Method | Unit  | Minimum Average Roll Value  |
|------------------------------|-------------|---|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> )          | 14.0 (475)                  |
| Thickness                    | ASTM D5199  | mils (mm)                                       | 135 (3.4)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)   | 390 (1736)                  |
| Grab Tensile Elongation      | ASTM D4632  | %   | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)   | 135 (601)                   |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)   | 1045 (4650)                 |
|                              |             |   | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                                 | 100 (0.15)                  |
|                              |             |   | <b>Minimum Roll Value</b>   |
| Permittivity                 | ASTM D4491  | sec <sup>-1</sup>                               | 0.64                        |
| Permeability                 | ASTM D4491  | cm/sec  | 0.25                        |
| Flow Rate                    | ASTM D4491  | gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) | 50 (2037)                   |
|                              |             |   | <b>Minimum Test Value</b>   |
| 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 (4.5 x 91) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 500 (418)           |

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# Mirafi<sup>®</sup> S1600



Mirafi<sup>®</sup> S1600 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S1600 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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| Mechanical Properties        | Test Method | Unit  | Minimum Average Roll Value  |
|------------------------------|-------------|---|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> )          | 16.0 (542)                  |
| Thickness                    | ASTM D5199  | mils (mm)                                       | 175 (4.4)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)   | 425 (1891)                  |
| Grab Tensile Elongation      | ASTM D4632  | %   | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)   | 155 (690)                   |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)   | 1200 (5340)                 |
|                              |             |   | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                                 | 100 (0.15)                  |
|                              |             |   | <b>Minimum Roll Value</b>   |
| Permittivity                 | ASTM D4491  | sec <sup>-1</sup>                               | 0.7                         |
| Permeability                 | ASTM D4491  | cm/sec  | 0.31                        |
| Flow Rate                    | ASTM D4491  | gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) | 50 (2037)                   |
|                              |             |   | <b>Minimum Test Value</b>   |
| 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 (4.5 x 91) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 500 (418)           |

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# Mirafi<sup>®</sup> S2000



Mirafi<sup>®</sup> S2000 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S2000 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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| Mechanical Properties        | Test Method | Unit                                   | Minimum Average Roll Value  |
|------------------------------|-------------|--|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> ) | 20.0 (678)                  |
| Thickness                    | ASTM D5199  | mils (mm)                              | 180 (4.6)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)                                | 450 (2003)                  |
| Grab Tensile Elongation      | ASTM D4632  | %                                      | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)                                | 175 (779)                   |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)                                | 1310 (5830)                 |
|                              |             |  | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                        | 100 (0.15)                  |
|                              |             |  | <b>Minimum Test Value</b>   |
| UV Resistance (at 500 hours) | ASTM D4355  | % strength retained                    | 80                          |

| Physical Properties              | Unit                              | Roll Size           |
|----------------------------------|-----------------------------------|---------------------|
| Roll Dimensions (width x length) | ft (m)                            | 15 x 150 (4.5 x 46) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 250 (209)           |

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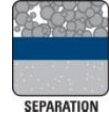
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# Mirafi<sup>®</sup> S2400



Mirafi<sup>®</sup> S2400 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S2400 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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| Mechanical Properties        | Test Method | Unit                                   | Minimum Average Roll Value  |
|------------------------------|-------------|--|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> ) | 24.0 (814)                  |
| Thickness                    | ASTM D5199  | mils (mm)                              | 200 (5.1)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)                                | 500 (2225)                  |
| Grab Tensile Elongation      | ASTM D4632  | %                                      | 50                          |
| Puncture Strength            | ASTM D4833  | lbs (N)                                | 250 (1113)                  |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)                                | 1800 (8010)                 |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)                                | 200 (890)                   |
|                              |             |  | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                        | 100 (0.15)                  |
|                              |             |  | <b>Minimum Test Value</b>   |
| UV Resistance (at 500 hours) | ASTM D4355  | % strength retained                    | 70                          |

| Physical Properties              | Unit                              | Roll Size           |
|----------------------------------|-----------------------------------|---------------------|
| Roll Dimensions (width x length) | ft (m)                            | 15 x 150 (4.5 x 46) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 250 (209)           |

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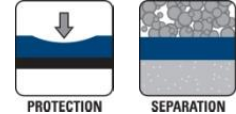
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# Mirafi<sup>®</sup> S2600



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| Mechanical Properties        | Test Method | Unit                                   | Minimum Average Roll Value  |
|------------------------------|-------------|--|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> ) | 26.0 (881)                  |
| Thickness                    | ASTM D5199  | mils (mm)                              | 230 (5.8)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)                                | 670 (2982)                  |
| Grab Tensile Elongation      | ASTM D4632  | %                                      | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)                                | 240 (1068)                  |
| Puncture Strength            | ASTM D4833  | lbs (N)                                | 275 (1224)                  |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)                                | 2000 (8900)                 |
|                              |             |  | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                        | 100 (0.15)                  |
|                              |             |  | <b>Minimum Test Value</b>   |
| UV Resistance (at 500 hours) | ASTM D4355  | % strength retained                    | 80                          |

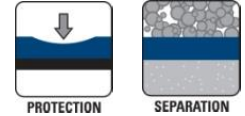
| Physical Properties              | Unit                              | Roll Size           |
|----------------------------------|-----------------------------------|---------------------|
| Roll Dimensions (width x length) | ft (m)                            | 15 x 150 (4.5 x 46) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 250 (209)           |

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# Mirafi<sup>®</sup> S2800



Mirafi<sup>®</sup> S2800 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S2800 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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| Mechanical Properties        | Test Method | Unit                                   | Minimum Average Roll Value  |
|------------------------------|-------------|--|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> ) | 28.0 (949)                  |
| Thickness                    | ASTM D5199  | mils (mm)                              | 275 (7.0)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)                                | 725 (3226)                  |
| Grab Tensile Elongation      | ASTM D4632  | %                                      | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)                                | 250 (1113)                  |
| Puncture Strength            | ASTM D4833  | lbs (N)                                | 300 (1335)                  |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)                                | 2100 (9345)                 |
|                              |             |  | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                        | 100 (0.15)                  |
|                              |             |  | <b>Minimum Test Value</b>   |
| UV Resistance (at 500 hours) | ASTM D4355  | % strength retained                    | 80                          |

| Physical Properties              | Unit                              | Roll Size           |
|----------------------------------|-----------------------------------|---------------------|
| Roll Dimensions (width x length) | ft (m)                            | 15 x 150 (4.5 x 46) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 250 (209)           |

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# Mirafi<sup>®</sup> S3200



Mirafi<sup>®</sup> S3200 is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S3200 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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

| Mechanical Properties        | Test Method | Unit                                   | Minimum Average Roll Value  |
|------------------------------|-------------|--|-----------------------------|
| Weight                       | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> ) | 32.0 (1084.8)               |
| Thickness                    | ASTM D5199  | mils (mm)                              | 320 (8.1)                   |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)                                | 830 (3694)                  |
| Grab Tensile Elongation      | ASTM D4632  | %                                      | 50                          |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)                                | 300 (1335)                  |
| Puncture Strength            | ASTM D4833  | lbs (N)                                | 350 (1558)                  |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)                                | 2200 (9790)                 |
|                              |             |  | <b>Maximum Opening Size</b> |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                        | 100 (0.15)                  |
|                              |             |  | <b>Minimum Test Value</b>   |
| UV Resistance (at 500 hours) | ASTM D4355  | % strength retained                    | 80                          |

| Physical Properties              | Unit                              | Roll Sizes          |
|----------------------------------|-----------------------------------|---------------------|
| Roll Dimensions (width x length) | ft (m)                            | 15 x 150 (4.5 x 46) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 250 (209)           |

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