



## Mirafi<sup>®</sup> 180N

Mirafi<sup>®</sup> 180N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> 180N geotextile is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

| Mechanical Properties                    | Test Method | Unit   | Minimum Average Roll Value |           |
|--|-------------|--|----------------------------|-----------|
|  |             |  | MD                         | CD        |
| Grab Tensile Strength                    | ASTM D 4632 | N (lbs)  | 912 (205)                  | 912 (205) |
| Grab Tensile Elongation                  | ASTM D 4632 | %  | 50                         | 50        |
| Trapezoid Tear Strength                  | ASTM D 4533 | N (lbs)  | 356 (80)                   | 356 (80)  |
| CBR Puncture Strength                    | ASTM D 6241 | N (lbs)  | 2225 (500)                 |           |
| Apparent Opening Size (AOS) <sup>1</sup> | ASTM D 4751 | mm<br>(U.S. Sieve)                                 | 0.18<br>(80)               |           |
| Permittivity                             | ASTM D 4491 | sec <sup>-1</sup>                                  | 1.1                        |           |
| Flow Rate                                | ASTM D 4491 | l/min/m <sup>2</sup><br>(gal/min/ft <sup>2</sup> ) | 3870<br>(95)               |           |
| UV Resistance (at 500 hours)             | ASTM D 4355 | % strength retained                                | 70                         |           |

<sup>1</sup> ASTM D 4751: AOS is a Maximum Opening Diameter Value

| Physical Properties                 | Test Method | Unit                                   | Typical Value             |                        |
|-------------------------------------|-------------|--|---------------------------|------------------------|
| Weight                              | ASTM D 5261 | g/m <sup>2</sup> (oz/yd <sup>2</sup> ) | 271 (8.0)                 |                        |
| Thickness                           | ASTM D 5199 | mm (mils)                              | 1.8 (72)                  |                        |
| Roll Dimensions<br>(width x length) | --          | m<br>(ft)                              | 3.8 x 110<br>(12.5 x 360) | 4.5 x 91<br>(15 x 300) |
| Roll Area                           | --          | m <sup>2</sup> (yd <sup>2</sup> )      | 418 (500)                 |                        |
| Estimated Roll Weight               | --          | kg (lb)                                | 120 (265)                 |                        |

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