



# Mirafi<sup>®</sup> 1100NPA (PennDOT, Class4)

Mirafi<sup>®</sup> 1100NPA (PennDOT, Class 4) 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> 1100NPA 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)  | 1202 (270)                 | 1202 (270) |
| Grab Tensile Elongation                  | ASTM D 4632 | %  | 50                         | 50         |
| Trapezoid Tear Strength                  | ASTM D 4533 | N (lbs)  | 445 (100)                  | 445 (100)  |
| Mullen Burst Strength                    | ASTM D 3786 | kPa (psi)  | 3513 (510)                 |            |
| Puncture Strength <sup>1</sup>           | ASTM D 4833 | N (lbs)  | 690 (155)                  |            |
| CBR Puncture Strength                    | ASTM D 6241 | N (lbs)  | 3115 (700)                 |            |
| Apparent Opening Size (AOS) <sup>2</sup> | ASTM D 4751 | mm<br>(U.S. Sieve)                                 | 0.15<br>(100)              |            |
| Permittivity                             | ASTM D 4491 | sec <sup>-1</sup>                                  | 0.8                        |            |
| Flow Rate                                | ASTM D 4491 | l/min/m <sup>2</sup><br>(gal/min/ft <sup>2</sup> ) | 3056<br>(75)               |            |
| UV Resistance (at 500 hours)             | ASTM D 4355 | % strength retained                                | 70                         |            |

<sup>1</sup> ASTM D 4833 has been replaced with ASTM D 6241

<sup>2</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> ) | 366 (10.8)             |
| Thickness                           | ASTM D 5199 | mm (mils)                              | 2.4 (95)               |
| Roll Dimensions<br>(width x length) | --          | m<br>(ft)                              | 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)                                | 160 (351)              |

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