



## 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)              |

**Disclaimer:** TenCate assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. TenCate disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.