

# Mirafi® 140N



Mirafi® 140N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 140N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi® 140N meets AASHTO M288-06 Class 3 for Elongation > 50%.

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| Mechanical Properties        | Test Method | Unit  | Minimum Average Roll Value |           |
|------------------------------|-------------|---|----------------------------|-----------|
|                              |             |   | MD                         | CD        |
| Grab Tensile Strength        | ASTM D4632  | lbs (N)   | 120 (534)                  | 120 (534) |
| Grab Tensile Elongation      | ASTM D4632  | %   | 50                         | 50        |
| Trapezoid Tear Strength      | ASTM D4533  | lbs (N)   | 50 (223)                   | 50 (223)  |
| CBR Puncture Strength        | ASTM D6241  | lbs (N)   | 310 (1380)                 |           |
|                              |             |   | Maximum Opening Size       |           |
| Apparent Opening Size (AOS)  | ASTM D4751  | U.S. Sieve (mm)                                 | 70 (0.212)                 |           |
|                              |             |   | Minimum Roll Value         |           |
| Permittivity                 | ASTM D4491  | sec <sup>-1</sup>                               | 1.7                        |           |
| Flow Rate                    | ASTM D4491  | gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) | 135 (5500)                 |           |
|                              |             |   | Minimum Test Value         |           |
| UV Resistance (at 500 hours) | ASTM D4355  | % strength retained                             | 70                         |           |

<sup>1</sup> ASTM D4751: AOS is a Maximum Opening Diameter Value

<sup>2</sup> Modified, Minimum Test Value

| Physical Properties              | Unit                              | Roll Sizes             |                      |
|----------------------------------|-----------------------------------|------------------------|----------------------|
| Roll Dimensions (width x length) | ft (m)                            | 12.5 x 360 (3.8 x 110) | 15 x 360 (4.5 x 110) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 500 (418)              | 600 (502)            |

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Testing Lab 1291.01 & 1291.02