



**AIL90** geotextile is composed of high-tenacity polypropylene yarns, which are woven into a network such that the yarns retain their relative position. **AIL90** geotextile is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

| MECHANICAL PROPERTIES                        | TEST METHOD | UNIT  | MINIMUM AVERAGE ROLL VALUE |             |
|--|-------------|---|----------------------------|-------------|
|  |             |   | MD                         | CD          |
| Tensile Strength (at ultimate)               | ASTM D4595  | lbs/ft (kN/m)                                   | 2640 (38.5)                | 2460 (35.9) |
| Tensile Strength (at 2% strain)              | ASTM D4595  | lbs/ft (kN/m)                                   | 504 (7.4)                  | 600 (8.8)   |
| Tensile Strength (at 5% strain)              | ASTM D4595  | lbs/ft (kN/m)                                   | 1272 (18.6)                | 1440 (21.0) |
|  |             |   | MINIMUM ROLL VALUE         |             |
| Flow Rate                                    | ASTM D4491  | gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> ) | 40 (1630)                  |             |
| Permittivity                                 | ASTM D4491  | sec <sup>-1</sup>                               | 0.6                        |             |
|  |             |   | MAXIMUM OPENING SIZE       |             |
| Apparent Opening Size (AOS)                  | ASTM D4751  | US Sieve (mm)                                   | 30 (0.60)                  |             |
|  |             |   | TYPICAL TEST VALUE         |             |
| Pore Size O <sub>95</sub> <sup>1</sup>       | ASTM D6767  | microns   | 386                        |             |
| Pore Size O <sub>10</sub> <sup>1</sup>       | ASTM D6767  | microns   | 294                        |             |
|  |             |   | MINIMUM TEST VALUE         |             |
| Coefficient of Interation (C) <sup>1,2</sup> | ASTM D6706  | -   | 0.85                       |             |
| Factory Sewn Seam                            | ASTM D4884  | lbs/ft (kN/m)                                   | 1260 (18.4)                |             |
| UV Resistance (at 500 hours)                 | ASTM D4355  | % strength retained                             | 80                         |             |

<sup>1</sup> Based on Third Party Testing

<sup>2</sup> Interaction Coefficient value is for sand or gravel based

| PHYSICAL PROPERTIES              | UNIT                              | ROLL SIZE              |
|----------------------------------|-----------------------------------|------------------------|
| Roll Dimensions (width x length) | ft (m)                            | 15 x 300 (4.57 x 91.4) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 500 (418)              |

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