

# GSE NON - WOVEN GEOTEXTILES Product Data Sheet

GSE Nonwoven Geotextiles are a family of polypropylene, staple fiber, nonwoven needle punched geotextiles. These products are the most uniform and consistent nonwoven needle punched geotextiles currently available in the industry. These product specifications meet or exceed GRI GT12.

| TESTING PROPERTY                           | TEST METHOD | FREQUENCY       | NW4            | NW6            | NW8            | NW10           | NW12           | NW16           |
|--------------------------------------------|-------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Product code                               |             |                 | GEO<br>O408002 | GEO<br>O608002 | GEO<br>O808002 | GEO<br>1008002 | GEO<br>1208002 | GEO<br>1608002 |
| Mass per unit g/m2<br>(oz./yd2)            | ASTM D 5261 | 8525 m2         | 135<br>4       | 200<br>6       | 270<br>8       | 335<br>10      | 405<br>12      | 540<br>16      |
| Grab Tensile Strength N<br>lb.             | ASTM D4632  | 8525m2          | 530<br>120     | 755<br>170     | 975<br>220     | 1155<br>260    | 1420<br>320    | 1735<br>390    |
| Grab Elongation %                          | ASTM D 4632 | 8525m2          | 50             | 50             | 50             | 50             | 50             | 50             |
| Puncture Strength N<br>lb.                 | ASTM D 4833 | 8525m2          | 265<br>60      | 395<br>90      | 525<br>120     | 725<br>165     | 835<br>190     | 1055<br>240    |
| Trapezoidal Tear Strength N<br>lb.         | ASTM D 4533 | 8525m2          | 220<br>50      | 310<br>70      | 420<br>95      | 445<br>100     | 555<br>125     | 665<br>150     |
| Apparent Opening Size. (mm)<br>Sieve No.   | ASTM D4751  | 51,150m2        | 0.21<br>70     | 0.21<br>70     | 0.180<br>80    | 0.150<br>100   | 0.150<br>100   | 0.150<br>100   |
| Permittivity                               | ASTM D 4491 | 51,150m2        | 1.5            | 1.5            | 1.5            | 1.2            | 0.8            | 0.7            |
| Permeability, cm/sec                       | ASTM D 4491 | 51,150m2        | 0.22           | 0.30           | 0.30           | 0.30           | 0.29           | 0.27           |
| Water Flow Rate, l/min/m2<br>gpm/ft2       | ASTM D 4491 | 51,150m2        | 4885<br>120    | 4480<br>110    | 4480<br>110    | 3460<br>85     | 2240<br>60     | 2035<br>50     |
| UV Resistance<br>% retained after 500 hrs. | ASTM D4355  | per formulation | 70             | 70             | 70             | 70             | 70             | 70             |
| Roll Length m x width m                    |             |                 | 184mx4.62m     | 184mx4.62m     | 184mx4.62m     | 92mx 4.62m     | 92mx 4.62m     | 92mx 4.62m     |
| Roll Area m2                               |             |                 | 850            | 850            | 850            | 425            | 425            | 425            |

Note:

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