

GSE Nonwoven Geotextiles

GSE Nonwoven Geotextiles are a family of staple fiber needlepunched geotextiles. The geotextiles are manufactured using an advanced manufacturing and quality system to produce the most uniform and consistent nonwoven needlepunched geotextile currently available in the industry. GSE combines a fiber selection and approval system with an in-line quality control and a state-of-the-art laboratory to ensure that every roll shipped meets customer specifications.



AT THE CORE:
A family of geotextiles used for separation, filtration, protection and drainage applications.

Product Specifications

These product specifications meet GRI GT12, GRI GT13 and AASHTO M288

| Tested Property ⁽¹⁾ | Test Method | Frequency | Minimum Average Roll Value | | | | | |
|--|-------------|-------------------------|----------------------------|---------------|---------------|----------------|----------------|----------------|
| | | | NW4 | NW6 | NW8 | NW10 | NW12 | NW16 |
| AASHTO M288 Class | | | 3 | 2 | 1 | >1 | >>1 | >>>1 |
| Mass per Unit Area, oz/yd ² | ASTM D 5261 | 90,000 ft ² | 4 | 6 | 8 | 10 | 12 | 16 |
| Grab Tensile Strength, lb | ASTM D 4632 | 90,000 ft ² | 120 | 170 | 220 | 270 | 320 | 390 |
| Grab Elongation, % | ASTM D 4632 | 90,000 ft ² | 50 | 50 | 50 | 50 | 50 | 50 |
| CBR Puncture Strength, lb | ASTM D 6241 | 540,000 ft ² | 303 | 435 | 575 | 725 | 925 | 1,125 |
| Trapezoidal Tear Strength, lb | ASTM D 4533 | 90,000 ft ² | 50 | 70 | 95 | 105 | 125 | 155 |
| Apparent Opening Size, Sieve No. (mm) | ASTM D 4751 | 540,000 ft ² | 70 (0.212) | 70 (0.212) | 80 (0.180) | 100 (0.150) | 100 (0.150) | 100 (0.150) |
| Permittivity, sec ⁻¹ | ASTM D 4491 | 540,000 ft ² | 1.8 | 1.5 | 1.3 | 1.0 | 0.8 | 0.7 |
| Water Flow Rate, gpm/ft ² | ASTM D 4491 | 540,000 ft ² | 135 | 110 | 95 | 75 | 60 | 50 |
| UV Resistance % retained after 500 hours | ASTM D 4355 | per formulation | | 70 | 70 | 70 | 70 | 70 |
| TYPICAL ROLL DIMENSIONS | | | | | | | | |
| Roll Length ⁽²⁾ , ft | | | 300 | 300 | 300 | 300 | 300 | 300 |
| Roll Width ⁽²⁾ , ft | | | 15 | 15 | 15 | 15 | 15 | 15 |
| Roll Area, ft ² | | | 4500 | 4500 | 4500 | 4500 | 4500 | 4500 |
| Roll Area (yd ²) | | | 500 | 500 | 500 | 500 | 500 | 500 |

NOTES:

- ⁽¹⁾The property values listed are in weaker principal direction. All values listed are Minimum Average Roll Values except apparent opening size in mm and UV resistance. Apparent opening size (mm) is a Maximum Average Roll Value. UV is a typical value.
- ⁽²⁾Roll lengths and widths have a tolerance of ±1%.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



[DURABILITY RUNS DEEP] For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.