GSE TenDrain 300 mil Geocomposite

GSE TenDrain geocomposite consists of a 300 mil thick GSE TenDrain geonet heat-laminated on one or both sides with a GSE nonwoven needle-punched geotextile. TenDrain 300 is comprised of a tri-planar structure consisting of middle ribs that provide direct channelized flow, with diagonally placed top and bottom ribs. The geotextile is available in mass per unit area range of 6 oz/yd² to 16 oz/yd². TenDrain 300 geocomposite provides high transmissivity under high and low loads.

Product Specifications

<table>
<thead>
<tr>
<th>Tested Property</th>
<th>Test Method</th>
<th>Frequency</th>
<th>Minimum Average Roll Value(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geocomposite</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmissivity(2), gal/min/ft, (m²/sec) at 1,000 psf</td>
<td>ASTM D 4716</td>
<td>1/540,000 ft²</td>
<td>33.8 (7x10⁻⁴)</td>
</tr>
<tr>
<td>Transmissivity(2), gal/min/ft, (m²/sec) at 15,000 psf</td>
<td>ASTM D 4716</td>
<td>1/540,000 ft²</td>
<td>16.9 (3.5x10⁻³)</td>
</tr>
<tr>
<td>Ply Adhesion, lb/in</td>
<td>ASTM D 7005</td>
<td>1/50,000 ft²</td>
<td>0.5</td>
</tr>
</tbody>
</table>

TenDrain 300 Geocomposite consists of a 300 mil thick TenDrain geonet heat-laminated on one or both sides with a nonwoven needle-punched geotextile.

Geonet Core(3,4) – GSE TenDrain

- Geonet Core Thickness, mil: ASTM D 5199, 1/50,000 ft², 300
- Density, g/cm³: ASTM D 1505, 1/50,000 ft², 0.94
- Tensile Strength (MD), lb/in: ASTM D 7179, 1/50,000 ft², 100
- Carbon Black Content, %: ASTM D 4218, 1/50,000 ft², 2.0
- Ply Adhesion, lb/in: ASTM D 7005, 1/50,000 ft², 0.5

Geotextile(3,4)

- Mass per Unit Area, oz/yd²: ASTM D 5261, 1/90,000 ft², 6
- Grab Tensile Strength, lb: ASTM D 4632, 1/90,000 ft², 160
- Grab Elongation, %: ASTM D 4632, 1/90,000 ft², 50
- CBR Puncture Strength, lb: ASTM D 6241, 1/540,000 ft², 435
- Trapezoidal Tear Strength, lb: ASTM D 4533, 1/90,000 ft², 65
- AOS, US sieve(1), (mm): ASTM D 4751, 1/540,000 ft², 70 (0.212)
- Permittivity, sec⁻¹: ASTM D 4491, 1/540,000 ft², 1.5
- Water Flow Rate, gpm/ft²: ASTM D 4491, 1/540,000 ft², 110
- UV Resistance, % retained: ASTM D 4355, 1/540,000 ft² (after 500 hours), per formulation, 70

NOMINAL ROLL DIMENSIONS(5)

- Roll Width, ft: 12.75
- Roll Length, ft: 152
- Roll Area , ft²: 1,938

NOTES:
- (1) All geotextile properties are minimum average roll values except AOS which is maximum average roll value and UV resistance is typical value. Geonet core thickness is minimum average value.
- (2) Gradient of 0.02, boundary condition: plate/sand/geocomposite/geomembrane/plate, water at 70°F for 1 hour.
- (3) Component properties prior to lamination.
- (4) 10,000 hour creep test under 15,000 psf at 40°C temperature.
- (5) Roll widths and lengths 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.