

GSE TenDrain 7.0 mm Geocomposite

METRIC

GSE TenDrain geocomposite consists of a 7.0 mm thick GSE TenDrain geonet heat-laminated on one or both sides with a GSE nonwoven needle-punched geotextile. TenDrain 7.0 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 200 g/m² to 540 g/m². TenDrain 7.0 geocomposite provides high transmissivity under high and low loads.

Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll Value ⁽¹⁾	
Geocomposite			200 g/m²	270 g/m²
Transmissivity ⁽²⁾ , m ² /sec Double-Sided Composite	ASTM D 4716	1/50,000 m ²	5x10 ⁻³	5x10 ⁻³
Ply Adhesion, g/cm	ASTM D 7005	1/4,600 m ²	89	89
Geonet Core^(1,3) – GSE TenDrain				
Geonet Core Thickness, mm	ASTM D 5199	1/4,600 m ²	7.0	7.0
Density, g/cm ³	ASTM D 1505	1/4,600 m ²	0.94	0.94
Tensile Strength (MD), kN/m	ASTM D 7179	1/4,600 m ²	17.5	17.5
Carbon Black Content, %	ASTM D 4218	1/4,600 m ²	2.0	2.0
Creep Reduction Factor	GRI-GC8	per formulation	1.2	1.2
Compressive Strength, kPa	ASTM D 6364	1/50,000 m ²	2870	2870
Geotextile^(1,3)				
Mass per Unit Area, g/m ²	ASTM D 5261	1/8,300 m ²	200	270
Grab Tensile Strength, N	ASTM D 4632	1/8,300 m ²	710	975
Grab Elongation, %	ASTM D 4632	1/8,300 m ²	50	50
CBR Puncture Strength, N	ASTM D 6241	1/50,000 m ²	1,936	2,557
Trapezoidal Tear Strength, N	ASTM D 4435	1/8,300 m ²	290	395
AOS, US sieve ⁽¹⁾ (mm)	ASTM D 4751	1/50,000 m ²	0.212	0.180
Permittivity, (sec ⁻¹)	ASTM D 4491	1/50,000 m ²	1.5	1.3
Water Flow Rate, lpm/m ²	ASTM D 4491	1/50,000 m ²	4,480	3,865
UV Resistance, % Retained	ASTM D 4355 (after 500 hours)	per formulation	70	70
NOMINAL ROLL DIMENSIONS⁽⁵⁾				
Roll Width, m			3.89	3.89
Roll Length, m	Double-Sided Composite		46.3	46.3
Roll Area, m ²	Double-Sided Composite		180	180

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, normal load of 335 kPa, boundary condition: plate/sand/geocomposite/geomembrane/plate, water at 21°C for 1 hour.
- ⁽³⁾ Component properties prior to lamination.
- ⁽⁴⁾ 10,000 hour creep test under 480 kPa at 20°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.



AT THE CORE:

A 7.0 mm thick TenDrain geonet heat-laminated on one or both sides with a nonwoven needlepunched geotextile.

