

GSE TenDrain 275 mil Geocomposite

GSE TenDrain geocomposite consists of a 275 mil thick GSE TenDrain geonet heat-laminated on one or both sides with a GSE nonwoven needle-punched geotextile. TenDrain 275 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 275 geocomposite provides high transmissivity under high and low loads.



AT THE CORE:

A 275 mil thick TenDrain geonet heat-laminated on one or both sides with a nonwoven needlepunched geotextile.

Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll Value ⁽¹⁾	
Geocomposite			6 oz/yd ²	8 oz/yd ²
Transmissivity ⁽²⁾ , gal/min/ft. (m ² /sec) Double-Sided Composite	ASTM D 4716	1/540,000 ft ²	24.2 (5x10 ⁻³)	24.2 (5x10 ⁻³)
Ply Adhesion, lb/in	ASTM D 7005	1/50,000 ft ²	0.5	0.5
Geonet Core^(1,3) – GSE TenDrain				
Geonet Core Thickness, mil	ASTM D 5199	1/50,000 ft ²	275	275
Density, g/cm ³	ASTM D 1505	1/50,000 ft ²	0.94	0.94
Tensile Strength (MD), lb/in	ASTM D 7179	1/50,000 ft ²	75	75
Carbon Black Content, %	ASTM D 4218	1/50,000 ft ²	2.0	2.0
Creep Reduction Factor ⁽⁴⁾	GRI-GC8	per formulation	1.2	1.2
Compressive Strength, psf	ASTM D 6364	1/540,000 ft ²	60,000	60,000
Geotextile^(1,3)				
Mass per Unit Area, oz/yd ²	ASTM D 5261	1/90,000 ft ²	6	8
Grab Tensile Strength, lb	ASTM D 4632	1/90,000 ft ²	160	220
Grab Elongation, %	ASTM D 4632	1/90,000 ft ²	50	50
CBR Puncture Strength, lb	ASTM D 6241	1/540,000 ft ²	435	575
Trapezoidal Tear Strength, lb	ASTM D 4533	1/90,000 ft ²	65	90
AOS, US sieve ⁽⁵⁾ , (mm)	ASTM D 4751	1/540,000 ft ²	70 (0.212)	80 (0.180)
Permittivity, sec ⁻¹	ASTM D 4491	1/540,000 ft ²	1.5	1.3
Water Flow Rate, gpm/ft ²	ASTM D 4491	1/540,000 ft ²	110	95
UV Resistance, % retained	ASTM D 4355 (after 500 hours)	per formulation	70	70
NOMINAL ROLL DIMENSIONS⁽⁵⁾				
Roll Width, ft			12.75	12.75
Roll Length, ft	Double-Sided Composite		152	152
Roll Area, ft ²	Double-Sided Composite		1,938	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, normal load of 7,000 psf, 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 10,000 psf at 70°F 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.