

# GSE TenFlow 330 mil Geocomposite (Double-Sided)

GSE TenFlow geocomposite consists of a 330 mil thick GSE TenFlow geonet heat-laminated on both sides with a GSE nonwoven needle-punched geotextile. TenFlow 330 is a T-shaped tri-axial geonet comprised of HDPE strands forming a three dimensional structure to provide planar water flow. The geotextile is available in mass per unit area range of 6 oz/yd<sup>2</sup> to 16 oz/yd<sup>2</sup>. TenFlow 330 geocomposite provides high transmissivity in a soil environment.



**AT THE CORE:**  
A 330 mil thick TenFlow geonet heat-laminated on both sides with a nonwoven needlepunched geotextile.

## Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll Value <sup>(1)</sup>	
<b>Geocomposite<sup>(6)</sup></b>			<b>6 oz/yd<sup>2</sup></b>	<b>8 oz/yd<sup>2</sup></b>
Transmissivity <sup>(2)</sup> , gal/min/ft, (m <sup>2</sup> /sec) at gradient=0.1	ASTM D 4716	1/540,000 ft <sup>2</sup>	24.2 (5x10 <sup>-3</sup> )	24.2 (5x10 <sup>-3</sup> )
Transmissivity <sup>(2)</sup> , gal/min/ft, (m <sup>2</sup> /sec) at gradient=0.33	ASTM D 4716	1/540,000 ft <sup>2</sup>	13.3 (2.75x10 <sup>-3</sup> )	13.3 (2.75x10 <sup>-3</sup> )
Ply Adhesion, lb/in	ASTM D 7005	1/50,000 ft <sup>2</sup>	0.5	0.5
<b>Geonet Core<sup>(1,3)</sup> – GSE TenFlow</b>				
Geonet Core Thickness, mil	ASTM D 5199	1/50,000 ft <sup>2</sup>	330	330
Density, g/cm <sup>3</sup>	ASTM D 1505	1/50,000 ft <sup>2</sup>	0.94	0.94
Carbon Black Content, %	ASTM D 4218	1/50,000 ft <sup>2</sup>	2.0	2.0
Creep Reduction Factor <sup>(4)</sup>	GRI-GC8	per formulation	1.05	1.05
<b>Geotextile<sup>(1,3)</sup></b>				
Mass per Unit Area, oz/yd <sup>2</sup>	ASTM D 5261	1/90,000 ft <sup>2</sup>	6	8
Grab Tensile Strength, lb	ASTM D 4632	1/90,000 ft <sup>2</sup>	160	220
Grab Elongation, %	ASTM D 4632	1/90,000 ft <sup>2</sup>	50	50
CBR Puncture Strength, lb	ASTM D 6241	1/540,000 ft <sup>2</sup>	435	575
Trapezoidal Tear Strength, lb	ASTM D 4533	1/90,000 ft <sup>2</sup>	65	90
AOS, US sieve <sup>(5)</sup> , (mm)	ASTM D 4751	1/540,000 ft <sup>2</sup>	70 (0.212)	80 (0.180)
Permittivity, sec <sup>-1</sup>	ASTM D 4491	1/540,000 ft <sup>2</sup>	1.5	1.3
Water Flow Rate, gpm/ft <sup>2</sup>	ASTM D 4491	1/540,000 ft <sup>2</sup>	110	95
UV Resistance, % retained	ASTM D 4355 (after 500 hours)	per formulation	70	70
<b>NOMINAL ROLL DIMENSIONS<sup>(6)</sup></b>				
Roll Width, ft			12.5	12.5
Roll Length, ft			150	150
Roll Area , ft <sup>2</sup>			1,875	1,875

**NOTES:**

- <sup>(1)</sup> 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.
- <sup>(2)</sup> Normal load of 1,000 psf, boundary condition: plate/sand/geocomposite/geomembrane/plate, water at 70°F for 1 hour.
- <sup>(3)</sup> Component properties prior to lamination.
- <sup>(4)</sup> 10,000 hour creep test under 2,000 psf at 70°F temperature.
- <sup>(5)</sup> Roll widths and lengths have a tolerance of ±1%.
- <sup>(6)</sup> The TenFlow geonet has a circular aperture side and a cusped side. The side with the circular apertures should be placed against the soil while the cusped side should be placed against the geomembrane.

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](http://GSEworld.com), call 800.435.2008 or contact your local sales office.