

# GSE DuraFlow 330 mil Geocomposite

GSE DuraFlow geocomposite consists of a 330 mil thick GSE DuraFlow geonet heat-laminated on one or both sides with a GSE nonwoven needle-punched geotextile. DuraFlow 330 is a box-shaped tri-axial geonet comprised of vertically formed center HDPE ribs superimposed on horizontally formed top and bottom ribs. Open areas between the center ribs form efficient flow channels while the top and bottom ribs provide support against intrusion and surface for lamination. The geotextile is available in mass per unit area range of 6 oz/yd<sup>2</sup> to 16 oz/yd<sup>2</sup>. DuraFlow 330 geocomposite provides high transmissivity in a soil environment.



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

## Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll Value <sup>(1)</sup>	
<b>Geocomposite</b>			6 oz/yd <sup>2</sup>	8 oz/yd <sup>2</sup>
Transmissivity <sup>(2)</sup> , gal/min/ft, (m <sup>2</sup> /sec) Double-Sided Composite	ASTM D 4716	1/540,000 ft <sup>2</sup>	24.2 (5x10 <sup>-3</sup> )	24.2 (5x10 <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 DuraFlow</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	1.1	1.1
<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>(5)</sup></b>				
Roll Width, ft			12.5	12.5
Roll Length, ft	Double-Sided Composite		150	150
Roll Area , ft <sup>2</sup>	Double-Sided Composite		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> Gradient of 0.02, normal load of 15,000 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 15,000 psf at 104°F temperature.
- <sup>(5)</sup> 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](http://GSEworld.com), call 800.435.2008 or contact your local sales office.