

# GSE DuraFlow 8.4 mm Geocomposite

METRIC

GSE DuraFlow geocomposite consists of an 8.4 mm thick GSE DuraFlow geonet heat-laminated on one or both sides with a GSE nonwoven needle-punched geotextile. DuraFlow 8.4 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 200 g/m<sup>2</sup> to 540 g/m<sup>2</sup>. DuraFlow 8.4 geocomposite provides high transmissivity in soil environments.



**AT THE CORE:**  
A 8.4 mm 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>			200 g/m <sup>2</sup>	270 g/m <sup>2</sup>
Transmissivity <sup>(2)</sup> , m <sup>2</sup> /sec Double-Sided Composite	ASTM D 4716	1/50,000 m <sup>2</sup>	5x10 <sup>-3</sup>	5x10 <sup>-3</sup>
Ply Adhesion, g/cm	ASTM D 7005	1/4,600 m <sup>2</sup>	89	89
<b>Geonet Core<sup>(1,3)</sup> – GSE DuraFlow</b>				
Geonet Core Thickness, mm	ASTM D 5199	1/4,600 m <sup>2</sup>	8.4	8.4
Density, g/cm <sup>3</sup>	ASTM D 1505	1/4,600 m <sup>2</sup>	0.94	0.94
Carbon Black Content, %	ASTM D4218	1/4,600 m <sup>2</sup>	2.0	2.0
Creep Reduction Factor <sup>(4)</sup>	GRI-GC8	per formulation	1.1	1.1
<b>Geotextile<sup>(1,5)</sup></b>				
Mass per Unit Area, g/m <sup>2</sup>	ASTM D 5261	1/8,300 m <sup>2</sup>	200	270
Grab Tensile Strength, N	ASTM D 4632	1/8,300 m <sup>2</sup>	710	975
Grab Elongation, %	ASTM D 4632	1/8,300 m <sup>2</sup>	50	50
CBR Puncture Strength, N	ASTM D 6241	1/50,000 m <sup>2</sup>	1,936	2,557
Trapezoidal Tear Strength, N	ASTM D 4435	1/8,300 m <sup>2</sup>	290	395
AOS, US sieve <sup>(5)</sup> (mm)	ASTM D 4751	1/50,000 m <sup>2</sup>	0.212	0.180
Permittivity, (sec <sup>-1</sup> )	ASTM D 4491	1/50,000 m <sup>2</sup>	1.5	1.3
Water Flow Rate, lpm/m <sup>2</sup>	ASTM D 4491	1/50,000 m <sup>2</sup>	4,480	3,865
UV Resistance, % Retained	ASTM D 4355 (after 500 hours)	per formulation	70	70
<b>NOMINAL ROLL DIMENSIONS<sup>(5)</sup></b>				
Roll Width, m			3.8	3.8
Roll Length, m	Double-Sided Composite		45.7	45.7
Roll Area, m <sup>2</sup>	Double-Sided Composite		174	174

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 720 kPa psf, boundary condition: plate/sand/geocomposite/geomembrane/plate, water at 21°C for 1 hour.
- <sup>(3)</sup> Component properties prior to lamination.
- <sup>(4)</sup> 10,000 hour creep test under 720 kPa at 40°C 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.

