

# GSE PermaNet Geonet

METRIC

GSE PermaNet is a biplanar geonet with two sets of diagonally crossing parallel strands in a patented round cross-sectional shape. This unique strand structure provides superior compressive creep resistance and ensures continuous flow performance over a broad range of conditions and long durations.

GSE PermaNet is manufactured through a one-step coextrusion process from prime quality high density polyethylene resins. This product is durable under rigorous environmental conditions and ideal for extremely demanding applications.



## AT THE CORE:

A biplanar geonet that performs under rigorous environmental conditions and is ideal for extremely demanding applications.

## Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll Value		
			6.9 mm	7.6 mm	8.4 mm
Geonet Core Thickness <sup>(1)</sup> , mm	ASTM D 5199	1/4,600 m <sup>2</sup>	6.9	7.6	8.4
Transmissivity <sup>(2)</sup> , m <sup>2</sup> /sec	ASTM D 4716	1/50,000 m <sup>2</sup>	4 x 10 <sup>-3</sup> @ 720 kPa	5 x 10 <sup>-3</sup> @ 1,200 kPa	6 x 10 <sup>-3</sup> @ 1,200 kPa
Compressive Strength, kPa	ASTM D 6364	1/50,000 m <sup>2</sup>	1915	2390	2870
Creep Reduction Factor,	ASTM D 7361	per formulation	1.2 @ 720 kPa	1.3 @ 960 kPa	1.3 @ 1,200 kPa
Density, g/cm <sup>3</sup>	ASTM D 1505	1/4,600 m <sup>2</sup>	0.94	0.94	0.94
Tensile Strength (MD), N/mm	ASTM D 7179	1/4,600 m <sup>2</sup>	17	17	17
Carbon Black Content, %	ASTM D 4218	1/4,600 m <sup>2</sup>	2.0	2.0	2.0
NOMINAL ROLL DIMENSIONS <sup>(3)</sup>					
Roll Width, m			4.57	4.57	4.57
Roll Length, m			60.9	60.97	60.97
Roll Area, m <sup>2</sup>			280.48	278.65	278.65

NOTES:

- <sup>(1)</sup> Geonet thickness is nominal value.
- <sup>(2)</sup> Gradient of 0.1, water at 70° F between steel plates for 15 minutes.
- <sup>(3)</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.