

GSE PermaNet Geonet

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		
			270 mil	300 mil	330 mil
Geonet Core Thickness ⁽¹⁾ , mil	ASTM D 5199	1/50,000 ft ²	270	300	330
Transmissivity ⁽²⁾ , gal/min/ft (m ² /sec)	ASTM D 4716	1/540,000 ft ²	19.0 (4 x 10 ⁻³) @ 15,000 psf	24.0 (5 x 10 ⁻³) @ 25,000 psf	28.8 (6 x 10 ⁻³) @ 25,000 psf
Compressive Strength, psf	ASTM D 6364	1/540,000 ft ²	40,000	50,000	60,000
Creep Reduction Factor	ASTM D 7361	per formulation	1.2 @ 15,000 psf	1.3 @ 20,000 psf	1.3 @ 25,000 psf
Density, g/cm ³	ASTM D 1505	1/50,000 ft ²	0.94	0.94	0.94
Tensile Strength (MD), lb/in	ASTM D 7179	1/50,000 ft ²	100	100	100
Carbon Black Content, %	ASTM D 4218	1/50,000 ft ²	2.0	2.0	2.0
NOMINAL ROLL DIMENSIONS ⁽³⁾					
Roll Width, ft			15	15	15
Roll Length, ft			200	200	200
Roll Area, ft ²			3,000	3,000	3,000

NOTES:

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