



The Pioneer Of Geosynthetics
S I N C E 1 9 7 2

GSE PermaNet TRx Geonet

GSE PermaNet TRx high flow geonet is produced with a unique one-step coextrusion process that generates a tri-axial geonet structure with creep resistant columns connected to an intrusion resistant roof. GSE PermaNet TRx achieves high in-situ transmissivity from optimally oriented flow channels that maintain porosity because of the intrusion and creep resistant nature of the tri-axial structure. The geonet is also designed with a strand structure that is specifically to withstand high stresses. It also provides durable performance over a broad range of conditions that is ideal for extremely high compressive stress applications.

Product Specifications

TESTED PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE VALUE
Transmissivity ⁽¹⁾ , gal/min/ft (m ² /sec)	ASTM D 4716	1/540,000 ft ²	19.2 (4.0 x10 ⁻³)
Creep Reduction Factor	GRI-GC8	once per formulation	1.2 @ 15,000 psf
Density, g/cm ³	ASTM D 1505	1/50,000 ft ²	> 0.94
Tensile Strength ⁽²⁾ , lb/in (N/mm)	ASTM D 5035/7179	1/50,000 ft ²	75 (13.3)
Carbon Black Content, %	ASTM D 1603*/4218	1/50,000 ft ²	> 2.0
NOMINAL ROLL DIMENSIONS			
Geonet Thickness, mil (mm)	ASTM D 5199	1/50,000 ft ²	300 (7.6)
Roll Width ⁽³⁾ , ft (m)			15 (4.5)
Roll Length ⁽³⁾ , ft (m)			200 (60)
Roll Area, ft ² (m ²)			3,000 (279)

NOTES:

- ⁽¹⁾This is an index transmissivity value measured at stress = 10,000 psf; gradient = 0.1; time = 15 minutes; boundary conditions = plate/geonet/plate. Contact GSE for performance transmissivity value for use in design.
- ⁽²⁾Tested in machine direction (MD).
- ⁽³⁾Roll widths and lengths have a tolerance of ±1%.
- *Modified.