



GEONET PRODUCT BROCHURE



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Geonet

Geonets are high-performance geosynthetic materials made from high-density polyethylene (HDPE) or polypropylene (PP) designed to provide superior in-plane drainage. Their unique ribbed or net-like structure allows efficient water or gas flow under soil loads, making them ideal for separation, filtration, and drainage applications in civil, environmental, and geotechnical engineering projects.

Prime Geonet



Features :

- Three-dimensional ribbed structure for high drainage capacity
- Excellent tensile and compressive strength
- Chemically inert and resistant to UV degradation
- Durable performance under heavy loads and harsh conditions
- Lightweight and easy to install on various terrains

Advantages :

- Provides rapid drainage and reduces pore water pressure
- Prevents soil erosion and maintains structural stability
- Replaces traditional granular drainage layers
- Offers long-term performance and minimal maintenance
- Reduces overall construction costs and time

Applications :

- Landfill leachate and gas drainage systems
- Road and railway subgrade drainage
- Retaining wall and slope stabilization
- Tunnel and underground structure waterproofing
- Green roofs, reservoirs, and landscaping drainage



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info@primeterratech.com

Prime Geonet is a high-performance synthetic drainage core manufactured from premium-quality HDPE (High-Density Polyethylene) resin. It is engineered with two intersecting strands arranged at a consistent angle, forming efficient drainage channels that deliver superior flow capacity even under high pressure and minimal slope conditions. Prime Geonet is produced at Prime Terratech's advanced manufacturing facility, which operates under ISO 9001:2015 certified quality management systems ensuring consistent performance and reliability.

Type of Product	Units	GEONET-PT
Properties [Test Methods]		Mean Value [Applied Tolerance]
<u>Mechanical Properties</u>		
Wide Width Tensile Strength [EN ISO 10319]	kN/m	4.0 [-10%]
<u>Physical Properties</u>		
Mass Per Unit Area [EN ISO 9864]	g/m ²	490 [±15]
Thickness [EN ISO 9863-1]	mm	5.40 [±5%]
Density [EN ISO 1183-1]	g/m ³	>0.94
Carbon Black Content [ASTM D4218]	%	2.0-3.0
Mesh Count	200mm	15 [±1]
<u>Hydraulic Properties</u>		
In plane Flow rate [EN ISO 12958] Hard platens i=1@100kPA i=1@200kPA	L/m.s	1.50 [-20%] 1.20 [-20%]
<u>Roll Dimensions</u>		
Roll Width	Meter	2.0 2.10 2.20
Roll Length	Meter	25 50 100 150

Notes:

Reported values represent arithmetic mean results unless otherwise specified. Each set of test results is obtained from specimens cut from a single sample, taken across the full width of the roll.

The above figures correspond to standard product weight and roll size. Other weights, sizes, and colors may be available upon request without prior notice.

Minor variations in the above values may occur due to different testing conditions or laboratories.

For any queries or sales inquiries, please email us at info@primeterratech.com

This data sheet supersedes all previously issued versions.

