



Applications

- Embankment Reinforcement
- Segmental Retaining Walls
- Reinforced Steep Slopes
- Landslide Repair
- Reinforced Foundations

TerraGrid® Uniaxial PET

TerraGrid® is a high performance soil reinforcement geosynthetic product.

It is made with polyester yarns that have a high molecular weight and extraordinary tensile strength. These yarns are then knitted into a dimensionally stable network of apertures to form a geometric grid shape which offers tensile reinforcement to the soil in both the vertical and horizontal directions. TerraGrid® interacts with the soil particles to create a permanent composite soil/geosynthetic structure.

TerraGrid® is coated with a black saturation coating to provide further chemical and mechanical benefits that preserve its durability in any environment. In order to provide the most efficient design possible, TerraGrid® is produced in multiple strengths.

TerraGrid® has been proven in the lab and by its installation in thousands of applications over the past decade. Its success is attributed to its performance and its ability to solve common civil engineering problems.

TerraGrid® Uniaxial PET Specifications						
Mechanical Properties	Unit (US Grade)	Stats	GG80	GG100	GG120	GG150
Tensile Strength (ASTM D 6637 – Method A)	kN/m	MD CMD	80 30	100 30	120 30	150 30
Creep Reduction Factor (at 20°C, 114 years design life)	kN/m		1.47	1.47	1.47	1.47
Creep Limited Strength	kN/m	MD	54.4	68.0	81.6	102.0
Partial Factor - Installation Damage (ASTM D 5818) In clay, silt or sand	%		1.07	1.07	1.07	1.04
Partial Factor - Environmental Effects (GRI-GG7, GRI-GG8) Environment, 4 < pH < 8			1.10	1.10	1.10	1.10
Molecular Properties						
Molecular weight (GRI GG8)	g/mol		min. 25,000	min. 25,000	min. 25,000	min. 25,000
Carboxyl End Group (CEG) (GRI GG7)	mmol/kg		max. 30	max. 30	max. 30	max. 30
Physical Properties						
Roll dimensions (width x length)	m		5.2x100	5.2x100	5.2x100	5.2x100
Roll area	m ²		520	520	520	520

Roll weights are average values including shipping cores. Actual roll weights may vary.
The properties might change at the time of manufacturing, storing, handling or shipping.
The above values are subject to change as per discretion of the company.