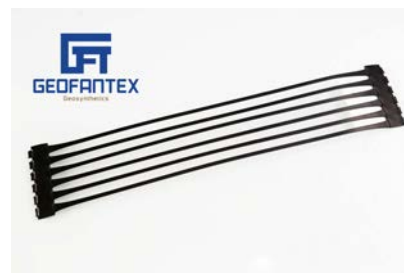


# GeofanGrid HDPE Uniaxial Range

## Technical Data Sheet

GFT GeofanGrid HDPE Jan. 2018

GeofanGrid HDPE is manufactured from the most proven "punch-and-drawing" techniques with the most sophisticated manufacturing technology. Solid sheets of polymer have apertures removed by punching, and then the sheet is carefully stretched to achieve optimum molecular orientation within the monolithic polymer structure. Therefore high ultimate tensile strengths of up to 160kN/m can be achieved.



The choice of HDPE ensures:

- Minimal site installation stress at the point of application
- High durability against aggressive acid / alkali groundwater conditions
- Excellent creep characteristics

World recognized design standards for Mechanically Stabilized Earth (MSE) structures such as BS8006, require all of these technical characteristics to calculate the effective Long-Term Allowable Design Strength to allow accurate designs

### Applications

- Retaining walls
- Ground stabilization
- Earth retaining walls and slopes
- Steep slopes
- Foundation support
- Embankment construction over poor quality soils

### Physical Properties

Properties	Test Method	Unit	Specification					
			HDPE 50	HDPE 65	HDPE 80	HDPE 100	HDPE 120	HDPE 160
Carbon Content	ASTM D 4218	≥%	2	2	2	2	2	2
Tensile Strength	ASTM D 6637	≥KN/m	50	65	80	100	120	160
Strength at 2% Elongation	ASTM D 6637	KN/m	13	18	23	29	35	47
Strength at 5% Elongation	ASTM D 6637	KN/m	25	35	44	55	65	85
Yield Elongation Ratio		≤%	12	12	12	12	12	12
Reduction Factor for Creep for 114-year Design life (RFcr)	ASTM D 5262		2.23	2.23	2.23	2.23	2.23	2.23
Approx Load Q'ty per 40'HC		m <sup>2</sup>	40000	32950	31900	30000	25080	18750

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes. GFT keeps the right of data changes and the final explanation right. Liability Exclusion: This publication should not be construed as engineering advice. While information contained here is accurate to the best of our knowledge, GFT does not warrant its accuracy or completeness. The only warranty made by GFT for its products is set forth in our Product Test Report accompanies our shipment of the products, or such other written warranty as may be agreed by GFT and customer. GFT specifically disclaims all other warranty, express or implied, including without agreed by GFT and customer. GFT specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or arising from provision of samples, a course of dealing or usage of trade.



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