

# TerraGrid® 20

## Product Data Sheet

Woven, high tenacity polyester yarns comprise the strength components of **TerraGrid** uniaxial geogrids. The yarn substrate is coated with polyvinyl chloride (PVC) to develop dimensional stability and protect the product from U.V. and installation damage. **TerraGrid** geogrids are non-biodegradable and resistant to most soil chemicals, acids, and alkalis with a pH range of 5 to 8. **TerraGrid 20** is manufactured to meet or exceed the following machine direction (MD) characteristics.

Tensile Properties	Procedure	Symbol	Value-MD <sup>1</sup> lbs/ft	Value-MD <sup>1</sup> kN/m
Ultimate Strength <sup>2</sup>	ASTM D6637	T <sub>ult</sub>	2,025	29.6
Creep Limited Strength	ASTM D5262	T <sub>I</sub>	1,282	18.7
Reduction Factors			Symbol	Factor
Durability			RF <sub>D</sub>	1.10
Creep			RF <sub>CR</sub>	1.58
Installation Damage				
Soil Type 3: D <sub>100</sub> ≤ 20 mm, D <sub>50</sub> = 0.1 to 0.5 mm, PI < 20			RF <sub>ID</sub>	1.10
Soil Type 2: D <sub>100</sub> ≤ 20 mm, D <sub>50</sub> ≤ 0.7 mm, PI < 6			RF <sub>ID</sub>	1.10
Soil Type 1: D <sub>100</sub> ≤ 100 mm, D <sub>50</sub> ≤ 30 mm, PI < 20			RF <sub>ID</sub>	1.73
Long Term Design Strength (LTDS or T <sub>al</sub> ) <sup>3</sup>			Value-MD <sup>1</sup> lbs/ft	Value-MD <sup>1</sup> kN/m
Soil Type 3: D <sub>100</sub> ≤ 20 mm, D <sub>50</sub> = 0.1 to 0.5 mm, PI < 20			1,060	15.5
Soil Type 2: D <sub>100</sub> ≤ 20 mm, D <sub>50</sub> ≤ 0.7 mm, PI < 6			1,060	15.5
Soil Type 1: D <sub>100</sub> ≤ 100 mm, D <sub>50</sub> ≤ 30 mm, PI < 6			674	9.8

Standard Packaging	Width	Length	Area	Width	Length	Area
	12 ft	150 ft	200 yd <sup>2</sup>	3.66 m	45.7 m	167.2 m <sup>2</sup>
Alternative Packaging	Roll sizes of 6', 12', 15' & 18' widths by custom roll lengths are available. Contact your Hanes Geo Sales Representative for details.					

Footnotes:

- <sup>1</sup> Machine Direction (MD) strength (uniaxial strength)
- <sup>2</sup> Unless denoted otherwise, values represent Minimum Average Roll Values (MARVs) in the machine direction determined in accordance with ASTM D4759-02
- <sup>3</sup> LTDS or T<sub>al</sub> = T<sub>ult</sub> / (RF<sub>D</sub> × RF<sub>CR</sub> × RF<sub>ID</sub>)
- <sup>4</sup> TerraGrid soil and segmental retaining wall unit interface properties are available upon request.
- <sup>5</sup> For permanent walls, the T<sub>al</sub> needs to be factored for uncertainties; Typically RF uncertainties = 1.5

*TerraGrid* is a registered trademark of Leggett & Platt

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