

TerraGrid® HSG (PET)



APPLICATIONS

- Embankment Reinforcement
- Retaining Structures
- Basal Reinforcement
- Piling Platforms
- Subgrade Improvement

TerraGrid® HSG is a high strength coated geogrid manufactured from high tenacity polyester (PET) yarns, knitted to form a structured grid. TerraGrid® HSG is used to reinforce soils where extremely high tensile strength with low elongation is required. The range of products is from 100kN through to 1000kN suitable for solving complex engineering problems.

Product strength and stiffness are affected both by temperature and by rate or duration of loading. Therefore, it is important that standard methods of tensile testing are used, so that temperature and strain rate are defined.

TerraGrid® PET High Strength Grid, quality control (QC) tensile testing is carried out using the method given in International Standard BS EN ISO 10319:1996. This is a wide width method with specimen width of 200mm. Strain rate is 20% per minute and test temperature is 20°C.

CODE	PRICE PER m2				All prices +GST
	30,000+	10,000 - 29,999	3,000 - 9,999	1 - 2,999	
GGPET60/60	\$2.40	\$2.72	\$3.00	\$3.35	
GGPET100/100	\$3.36	\$3.65	\$3.90	\$4.60	
GGPET200/200	\$5.98	\$6.50	\$6.98	\$7.50	

TerraGrid® HSG Biaxial Specifications

Properties	Symb	Unit	60/60	100/100	200/200
Aperture Size		mm	25/25	25/25	25/25
Elongation (+/- 2%)		%	<10	<10	<10
Ultimate Tensile Strength MD	Tu	kN/m	60/60	100/100	200/200
Characteristic tensile creep rupture strength @ 120 years	Tcr	kN/m	41.4	69.0	137.9
Characteristic initial tensile strength with maximum 5% strain in MD (40% of Tu)	Tcs	kN/m	24.0	40.0	80.0

The specification is compiled from MQA testing. To ensure this is current, contact Polyfabrics

MD = Machine Direction; CD = Cross Machine Direction;

Typical Values = Arithmetic Mean (50% will exceed value & 50% will not); MARV = Minimum Average Roll Value (Typical less 2 standard deviations or 97.5% will exceed this value)

The information contained herein is to the best of our knowledge accurate.

As part of our continual improvement, Polyfabrics reserve the right to amend the properties in this data sheet without prior notice.