

Reinforcing Polyester Geogrid

TERRAGRID GGPET100/100/150NW

(Biaxial Composite Geogrid Grade)

Technical Data

TERRAGRID PET 100/100/150NW is manufactured from high tenacity polyester (PET) yarns, knitted to form a structured grid, with bituminous coating protection. An optional 150gsm Nonwoven Geotextile can also be bonded on one side. TERRAGRID GT is designed for technical applications such as reinforcement of granular soils, embankments, retaining walls, slopes, base reinforcement, piling working platforms, subgrade improvement with optional separation function.

Properties	Unit	Requirement Values	Test Standard	TERRAGRID PET100/100	
Type of product	-	Warp knitting polymer grid structure (+bonded nonwoven geotextile)			
Material	-	High tenacity polyester continuous filament yarns (PET)			
Coating	-	bituminous			
Characteristic short-term - tensile strength (Tu)	MD	kN/m	Min.	ISO10319	100
	CD	kN/m	Min.	ISO10319	100
Elongation at characteristic - short-term tensile strength	MD	%	+2	ISO10319	12
	CD	%	+2	ISO10319	12
Tensile strength @2.5% strain	MD	kN/m	-	ISO10319	20
	MD	kN/m	-	ISO10319	40
Creep limited strength 120 years		kN/m	-		66.0
Long term design strength - (LTDS) 120 years*		kN/m	-		55.0
Aperture Size	MD	mm	+20%	-	20
	CD	mm	+20%	-	20
(Different Size Flexible Production)					

Forms of supply

Width	m	5.95 m
Length	m	50 m

* Long term design strength (LTDS) $T_d = T_u / F_c \cdot F_d \cdot F_e \cdot F_m$
 F_c (creep) = 1.5 (120 years)
 F_d (damage) = 1.10 (sand, silt, clay < 6mm)
 F_e (environment) = 1.10 (pH 4-9)
 F_m (material) = 1.00

Note:

- 1.MD: Machine direction, CD: Cross- Machine direction.
- 2.The table width is max width, we can according to customer's requests and capacity load may be changed.
- 3.The technical data are according to our laboratories and testing institution.

Consult Polyfabrics Australasia or a certified Engineer for site specific installation instructions. Polyfabrics Australasia reserves the right to change its product specification at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.