

TMP GEOSYNTHETICS - Quaxial Geogrid

Introduction

◆ Quaxial Geogrid is a patent product. It is manufactured through multi-directional stretch with polypropylene as raw material.

◆ Quaxial Geogrid has high tensile strength in the vertical, horizontal, both positive and negative direction of 45 degrees. The products are structured by triangle network. Compared to the square structure of biaxial geogrid, quaxial geogrid has better structural rigidity and stability.

Properties

- ◆ Stable triangular structure, effectively resist deformation;
- ◆ Resist loads from different directions, high plan torsion resistance;
- ◆ Resist slippage with soil, better performance of soil reinforcement;
- ◆ High junction efficiency.

Specifications

GG115Q	Untis	MD Values	+45° Values	-45° Values	TD Values
◆ Polymer	-	PP	-	-	-
◆ Tensile Strength @ 2% Strain	kN/m	2.3	1.6	1.6	2.3
◆ Secant Modulus @ 2% Strain	kN/m	115	80	80	115
◆ Tensile Strength @ 5% Strain	kN/m	5.3	3.7	3.7	5.3
◆ Secant Modulus @ 5% Strain	kN/m	106	74	74	106
◆ Strain @ Ultimate Strength	%	13	13	13	13

GG170Q	Untis	MD Values	+45° Values	-45° Values	TD Values
◆ Polymer	-	PP	-	-	-
◆ Tensile Strength @ 2% Strain	kN/m	3.4	2.4	2.4	3.4
◆ Secant Modulus @ 2% Strain	kN/m	170	120	120	170
◆ Tensile Strength @ 5% Strain	kN/m	8.0	5.6	5.6	8.0
◆ Secant Modulus @ 5% Strain	kN/m	160	112	112	160
◆ Strain @ Ultimate Strength	%	13	13	13	13

GG230Q	Untis	MD Values	+45° Values	-45° Values	TD Values
◆ Polymer	-	PP	-	-	-
◆ Tensile Strength @ 2% Strain	kN/m	4.6	3.2	3.2	4.6
◆ Secant Modulus @ 2% Strain	kN/m	230	160	160	230
◆ Tensile Strength @ 5% Strain	kN/m	10.6	7.4	7.4	10.6
◆ Secant Modulus @ 5% Strain	kN/m	210	148	148	210
◆ Strain @ Ultimate Strength	%	13	13	13	13