

## Uniaxial Polypropylene(PP) Geogrid

### Description

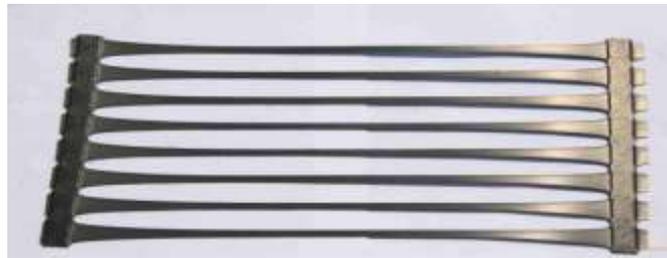
Uniaxial Polypropylene(PP) Geogrid uses polypropylene (PP) as raw materials and are produced by a process of extruding, punching, heating and longitudinal stretching. In this process polymer molecule is distributed a linear state from chain shaped and long oval network structure, which fully improve tensile strength and rigidity of the grid. The geogrid can carry high tensile loads applied in one direction (along the roll). Their open aperture structure interlocks with fill material to provide superior load transfer from soil to geogrid, an efficient stress transfer can be spread the load to a larger area of the soil quickly and effectively.

### Features

- ♦ Resistance to biological degradation and chemicals, long service life
- ♦ Weathering resistance from UV degradation
- ♦ Resistance to environmental stress cracking
- ♦ Enlarge road loadings; lasting the life of road
- ♦ Excellent loading change and prevent roads from cracks and deformation
- ♦ Convenient construction, low costs

### Uses

Soft foundation reinforcing for highway and roads construction, railways and rivers, lakes and along the coast of the retaining walls, dams, bridges, steep slopes, landfill projects etc.



### Type and Specification

Item	ASTM	TGDG25	TGDG35	TGDG50	TGDG80	TGDG100	TGDG110	TGDG120	TGDG150
Resin		PP							
Minimum carbon black, %≥	D4218	2							
Ultimate tensile strength, KN/m	D6637	25	35	50	80	100	110	120	150
Elongation at maximum load, %		≤10							
Tensile strength 2% strain, KN/m		6	9	10	23	29	30	35	39
Tensile strength at 5% strain, KN/m		12	18	25	44	55	60	65	77
Creep limit strength, KN/m		11	15	21	30	39	40	46	49
Length, m		50, 100							
Width, m		1, 2, 3							

Item	ASTM	TGDG170	TGDG200	TGDG220	TGDG240	TGDG260	TGDG280	TGDG300	TGDG350
Resin		PP							
Minimum carbon black, %≥	D4218	2							
Ultimate tensile strength, KN/m	D6637	170	200	220	240	260	280	300	350
Elongation at maximum load, %		≤10							
Tensile strength 2% strain, KN/m		45	55	59	65	78	84.5	90	99
Tensile strength at 5% strain, KN/m		90	110	120	132	157	170	182	191
Creep limit strength, KN/m		57	64	71.5	79	86	91.5	100	112
Length, m		50, 100							
Width, m		1, 2, 3							