

## Warp Knitted Polyester Geogrid

### Description

The geogrid is made by using high tenacity and high molecular weight polyester (PET) yarns to knit into a stable interlocking grid, then coated with a special glue to provide damage protection during installation. It can effectively improve the strength of subgrade, delaying reflection cracks in the soft soil roadbeds of road, improve the bearing capacity and stability of the foundation of dams or water conservancy projects, enhance the overall strength for embankment slope and retaining walls.

### Features

- ◆ Resistance to biological degradation and chemicals, long service life
- ◆ Weathering resistance from UV degradation
- ◆ High vertical and horizontal tensile strength
- ◆ Low unit extension, high flexibility
- ◆ Resist to long term creep, prevent roads from cracks and deformation
- ◆ Convenient construction, low costs

### Uses

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: Standard type

Item		Test	PET20-20	PET30-30	PET40-40	PET50-50	PET60-60	PET80-80	PET100-100	PET110-110	
Ultimate tensile strength, KN/m	MD	EN ISO10139	20	30	40	50	60	80	100	110	
	CD		20	30	40	50	60	80	100	110	
Elongation at maximum load, %	MD		≤13								
	CD		≤13								
Approximate mesh size , mm			12.7 x 12.7, 25.4 x 25.4, 40 x 40								
Length, m			50-200								
Width, m			1-6								

Item		Test	PET 120-120	PET 150-150	PET 180-180	PET 200-200	PET 260-260	PET 300-300	PET 400-400	PET 600-600	
Ultimate tensile strength, KN/m	MD	EN ISO10139	120	150	180	200	260	300	400	600	
	CD		120	150	180	200	260	300	400	600	
Elongation at maximum load, %	MD		≤13								
	CD		≤13								
Approximate mesh size , mm			12.7 x 12.7, 25.4 x 25.4, 40 x 40								
Length, m			50-200								
Width, m			1-6								

### Type and Specification: Heterogeneous type

Item		Test	PET40-25	PET50-30	PET50-35	PET60-30	PET60-35	PET80-30	PET80-50	PET100-30	
Ultimate tensile strength, KN/m	MD	EN ISO10139	40	50	50	60	60	80	80	100	
	CD		25	30	35	30	35	30	50	30	
Elongation at maximum load, %	MD		≤13								
	CD		≤13								
Approximate mesh size , mm			12.7 x 12.7, 25.4 x 25.4, 40 x 40								
Length, m			50-200								
Width, m			1-6								

Item		Test	PET 100-50	PET 100-85	PET 120-30	PET 120-50	PET 140-60	PET 150-30	PET 160-80	PET 180-30	
Ultimate tensile strength, KN/m	MD	EN ISO10139	100	100	120	120	140	150	160	180	
	CD		150	85	30	50	60	30	80	30	
Elongation at maximum load, %	MD		≤13								
	CD		≤13								
Approximate mesh size , mm			12.7 x 12.7, 25.4 x 25.4, 40 x 40								
Length, m			50-200								
Width, m			1-6								

Item		Test	PET 180-100	PET 200-30	PET 200-100	PET 300-30	PET 300-200	PET 400-300	PET 500-30	PET 600-400	
Ultimate tensile strength, KN/m	MD	EN ISO10139	180	200	200	300	300	400	500	600	
	CD		100	30	100	30	200	300	30	400	
Elongation at maximum load, %	MD		≤13								
	CD		≤13								
Approximate mesh size , mm			12.7 x 12.7, 25.4 x 25.4, 40 x 40								
Length, m			50-200								
Width, m			1-6								